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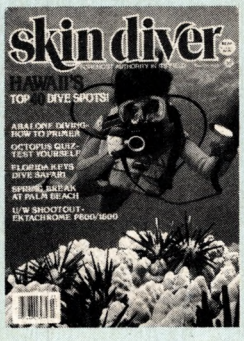
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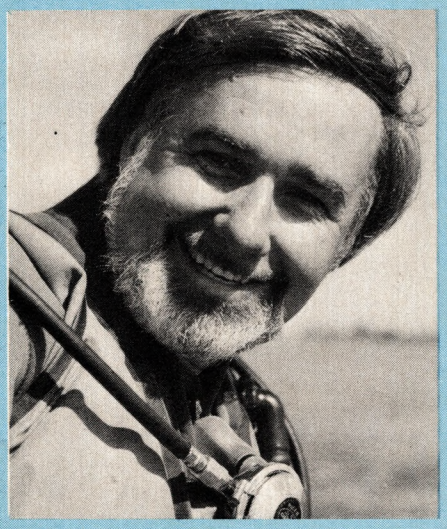


COVER
Cathy Church photographs red slate-pencil urchins at beautiful Honaunau Bay near the City of Refuge on the big island of Hawaii. For more on these fabulous islands see page 33. Photo/Jim and Cathy Church.

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SDM Editorial

BY THE PUBLISHER



THE KEY TO A SAFER SPORT

A new arrival at a Caribbean resort joins the dive boat for a morning trip to the drop-off. The divemaster scrutinizes his guests on the way out and silently thinks to himself, "this guy should be no problem." The diver is approximately 40 years old, from California, has been diving eight years and holds a certification card from a prestigious training association. He seems to know what he's talking about and has been diving in a number of exotic spots such as Truk Lagoon and the Red Sea. He appears in good physical condition and talks about jogging and playing racquetball.

Once the boat is anchored, the diver takes his time getting his well worn equipment together. As he gets into his gear he appears a little nervous. He is the last one off the boat, except for the two advanced students who are working out their repet dive profile with their instructor. Finally, he makes his entry and starts down the anchor with a slight current tugging at his body. His appointed dive buddy is 15 feet ahead on the same line.

At precisely 28 feet things begin to go wrong. The diver has difficulty clearing his ears. Frustrated by the inability to equalize, he clumsily attempts to turn around on the descent line. The rim of his facemask catches on the line and the mask floods with water. Caught off balance by the current, the diver attempts to tilt his head backward and clear his mask. The angle is wrong and a shot of seawater goes up his nose and into his sinus. With knee jerk reflex, the diver lets go of the descent line and starts thrashing his way to the surface. He breaks through the water canopy, spits out his mouthpiece and rips the flooded mask off his face. By now the current has carried him past the stern of the dive boat. His coughing and gagging attract the attention of the instructor who jumps into the water and drags him back to the ladder.

How is it possible that a well trained, certified diver with years of experience could have such a problem with basic scuba skills? Still gasping from the near miss, the diver solves the riddle by blurting out, "I blew it. I guess I'm a little out of practice. I haven't been in the water for 18 months."

Reentry into the sport, after a long period of inactivity, is perhaps one of diving's most difficult maneuvers. No matter how extensive or rigorous the original scuba training, the human body tends to forget with time. Skills and timing fade and self-confidence ebbs like the tide. Yet most divers don't seem to realize they are rusty. The process is subtle. It is only when the diver is fully suited up and balanced on the edge of the dive boat that he realizes he is not as well prepared as he should be.

Reentry is a serious safety problem at dive resorts and on local dive boats as well. In fact, it may very well be one of the major contributing factors to this sport's present credibility gap in the C-card system. Graduates of 12 to 20 week scuba courses are turning up at dive resorts acting like complete neophytes. Their C-cards do not reflect a true picture of their dive status. As one divemaster put it, "I really don't care about the date of the customer's first dive—I want to know the date of the last dive."

How can the dive industry cope with this growing problem? The first step is to recognize it for what it is and to realize that the situation has the potential of growing worse. The good news is that scuba reentry is a solvable problem. Once it is fully recognized by the diving public and understood by the resorts and divemasters, measures can be taken to relearn old skills. Here are just a few examples of what is being done today:

1) Two years ago one instructor organization introduced a refresher course. It consists of a special self-study textbook, instructor review of basic scuba skills and an optional open water dive for environmental orientation. The program was greeted with such enthusiasm that the first 10,000 copies of the workbook sold out in the first two months.

2) An organization specializing in travel and medical education has come up with a unique way of coping with the scuba reentry problem. Each traveler is sent a packet of pre-trip information containing a set of dive tables and a mini-exam with five repetitive dive problems. Customers practice their repetitive dive calculations *before* they reach the resort. They become proficient in figuring repet group letters and maximum bottom time. A lecture on personal diving safety is given the morning of the first day at the dive resort, prior to any open water activity.

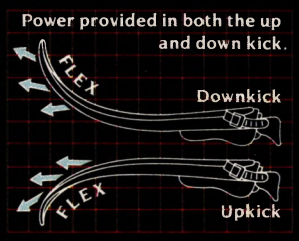
3) Some dive resorts start each new week with a walkaround orientation and a warm up dive. At 9:30 am the first full day new arrivals are conducted on a walk-through orientation of the dive shop procedures, tank location, dive boat rules and basic equipment requirements. At 10:30 am guests make a warm up dive directly in front of the resort. A gradually sloping bottom and calm surface provide an ideal environment for gentle rentry into diving. Instructors stand ready for assistance with gear or rescues if needed.

4) Many dive stores throughout the U.S. are now promoting local dives as a method of staying in shape between out-of-state trips. Events such as underwater Easter egg hunts, Thanksgiving turkey dives, Halloween U/W pumpkin carving contests and treasure hunts help to turn ordinary dives into social events.

If techniques such as those listed above are conducted on a national basis by all dive stores, instructors and dive resorts, this sport can successfully combat the reentry problem. More diving on a regular basis is the *key* to a safer sport.

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Film Festivals 'n Symposiums

SEA ROVERS '85

The Boston Sea Rovers 31st Annual Underwater Clinic will be held on Saturday, March 9 in Boston, MA at the Copley Plaza Hotel and John Hancock Hall.

Dr. Eugenie Clark will be the evening program master of ceremonies. She will show two new films, on the Red Sea and the special sand-diving fish. She will also discuss these areas during the daytime. Another feature of the evening program will be the New England premiere of Jack McKenney's new film on the Sulu Sea in the Philippine Islands. The evening program at John Hancock Hall will start at 8:00 pm. The Hall is at the corner of Dartmouth and Stuart Streets in downtown Boston, with garage parking nearby.

The daytime program, to be held at the Copley Plaza Hotel, will include sessions on New England underwater life, wreck diving along the coast, underwater photography and cinematography, marine biology of several parts of the world, diver rescue and medicine and much more.

Ticket prices for the programs are: day $6, evening $9, party $4 and the combination for all three together $17. For tickets, send your check to: Sea Rovers '85, P.O. Box 717, Westwood, MA 02090. Make the check to Sea Rovers '85.

For information, fliers or hotel reservation forms, write Bunky Hodge, Sea Rovers '85, 174 Beech Street, Rockland, Massachusetts 02370.

BENEATH THE SEA

The Greater New York Area Underwater Exposition will take place March 15-16 at the Westchester Marriott Hotel and on March 17 at the International Underwater Contractors, City Island, New York. More than 60 exhibits will be featured along with a speakers' reception and dive travel film festival on Friday night.

The Saturday program will feature 25 dive seminars—including the annual women in diving and instructors' workshop and the special fund raising divers' fashion show by Henderson Aquatics. The evening film festival will have all new films plus special MC, Dr. Eugenie Clark. The winners of the U/W photo competition will be announced and the Underwater Society of America's Northeast Divers of the Year will be introduced. This will be followed by the Decompression Party.

The Sunday program will offer a demonstration of diver air-sea rescue/recovery by the U.S. Coast Guard and NY police and firemen. This is produced by LifeGuard Systems and the North American Hyperbaric Center.

For more information contact Beneath the Sea, P.O. Box 644, Rye, New York 10580.

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SEAVUE '85

On April 20 the Southeast Virginia Underwater Expo (SeaVue '85) will feature the Stan Waterman Show along with educational seminars, diving equipment exhibits and quality door prizes. Topping the list of door prizes is a one week land package at the Plantation Beach Resort in the Caribbean.

The sport diving educational and entertainment program will be held at the Chamberlin Hotel in Hampton, Virginia. Sponsors include Seavue, Inc. a non-profit diving education organization and the Virginia Sea Grant Marine Advisory Services of the Virginia Institute of Marine Science, College of William and Mary. For further information on program details and ticket prices, contact: SeaVue '85, Marine Advisory Services, Virginia Institute of Marine Science, Gloucester Point, VA 23062.

CHICAGO DIVE TO ADVENTURE

The following Chicago area dive stores are presenting their 5th annual Dive to Adventure with Jack McKenney on Saturday, March 2. The two hour presentation will be held at Bryan Junior High School, Elmhurst, IL The show will begin at 8:00 pm with doors opening at 7:00 pm.

For tickets and information please contact one of the following: Black Magic Dive Shop, 202 E. Main St., Round Lake Park, IL 60073; Scuba Systems, 3919 Oakton St., Round Lake Park, IL 60076; The Gear Bag, 1605 N. Newland, Chicago, IL 60635; Underseas Scuba Center, 626 N. Addison Rd., Villa Park, IL 60181.

NEW ENGLAND U/W '85

New England Underwater '85 is the third annual presentation to be produced by the Diverdors Diving Club, Inc. A Blackstone, Massachusetts based organization, Diverdors serves all of Southern New England with its search and recovery team. An evening of interesting films and speakers is scheduled.

New England Underwater 85 will be presented Saturday evening, April 13, 7:00 pm, at Corliss Auditorium, University of Rhode Island Bay Campus, Kingston, Rhode Island. Tickets and information may be acquired by sending a self-addressed stamped envelope to: Russell S. Carpentier, Vice President, 159 Grand Street, Woonsocket, RI 02895.

NEW ENGLAND DIVERS EXHIBITION

New England Divers' 12th Annual Equipment Exhibition and Pre-Season sale will be held April 14. Films, seminars, door prizes and manufacturers sales representatives will be featured. For more information contact New England Divers, 131 Rantoul Street, Beverly, MA 01915.



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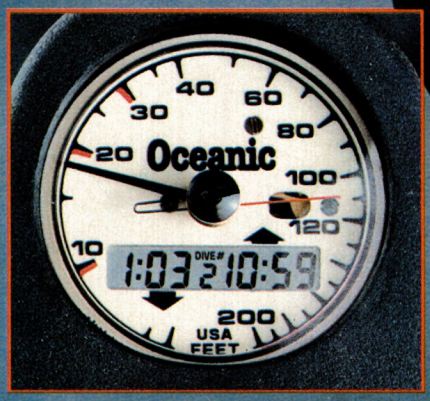
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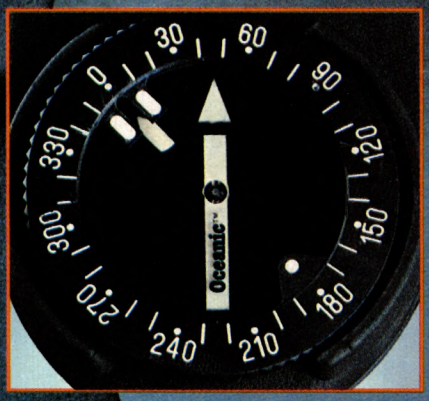
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Scuba Quiz

Category: The Octopus

By Dennis Graver

An extra second stage, often referred to as an octopus, is one of the most desirable options for an out-of-air situation. Its use is strongly recommended by the major training agencies. Sometimes divers attach an octopus to their regulator without knowing as much as they should about the proper configuration and usage. Find out if you are knowledgeable on the topic by taking this quiz. The answers are on the following page.

1. The hose of an extra second stage should be:
- ☐ A. The same length as the primary second stage hose
- ☐ B. Four inches longer than the primary second stage hose
- ☐ C. At least 12 inches longer than the primary second stage hose
- ☐ D. Longer and rated at a higher pressure than the primary second stage hose

2. For the following possible emergency options, use of the octopus should be the ___ choice: emergency swimming ascent, buddy breathing (sharing one second stage), backup scuba system, extra second stage.
- ☐ A. First
- ☐ B. Second
- ☐ C. Third
- ☐ D. Fourth

3. The extra second stage should be distinguished from the primary second stage by means of:
- ☐ A. Colored tape on the octopus hose
- ☐ B. A colored mouthpiece on the octopus
- ☐ C. A colored housing for the octopus
- ☐ D. Any or all of the above

4. If a newly attached octopus freeflows, the problem is most likely:
- ☐ A. The octopus is defective
- ☐ B. The octopus is not adjusted for the regulator
- ☐ C. The octopus is in the wrong port
- ☐ D. Excessive tank pressure

5. When your buddy needs air and you have an octopus, you should:
- ☐ A. Remove the primary second stage from your mouth, finding and using the octopus yourself
- ☐ B. Find and offer your buddy the octopus
- ☐ C. Offer your buddy the octopus from your mouth, finding and using the primary second stage yourself
- ☐ D. Either B or C by prior agreement, but not A

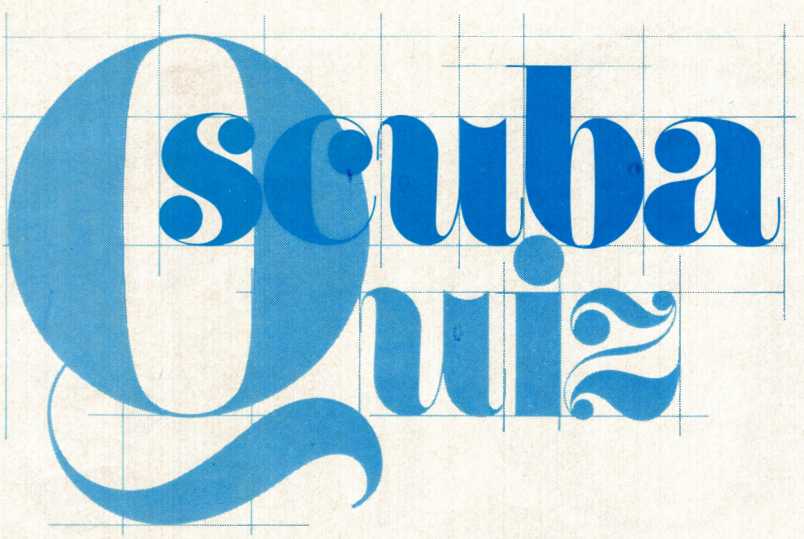
6. The extra second stage should be mounted so the hose:
- ☐ A. Comes over the donor's right shoulder
- ☐ B. Comes over the donor's left shoulder
- ☐ C. Will orient the regulator in the correct position for use
- ☐ D. Will not be near any other regulator hoses

7. The extra second stage should be worn:
- ☐ A. Attached so it can be reached by the donor or the diver in need
- ☐ B. Hanging free so there will be no problems with detachment
- ☐ C. Attached so it can be freed only by the donor
- ☐ D. In exactly the same location by all divers

8. Which of the following problems can occur when an octopus is used:
- ☐ A. Freezing of the first stage in cold water
- ☐ B. Rapid depletion of the air supply
- ☐ C. Both A and B
- ☐ D. Neither A or B

9. When ascending while using an octopus:
- ☐ A. The divers should hold onto one another
- ☐ B. The receiver should be behind the donor
- ☐ C. The receiver should be in front of the donor
- ☐ D. Both A and C

10. An octopus should be available:
- ☐ A. On all dives
- ☐ B. On all dives in excess of 40 feet
- ☐ C. On all dives unless the divers are highly experienced
- ☐ D. On all dives unless a backup unit is available



Answers: The Octopus

1. C. At least 12 inches longer than the primary second stage hose. The hose should be longer so it can be extended to another diver. A standard hose is about 27 inches long, while that of a typical octopus is about 40. The exact length is not important; the hose should be longer than a standard hose but not unwieldy.

2. B. Second choice. For an out-of-air situation, nothing is better than a redundant system. Backup units are expensive and add bulk and weight, so not many divers use them. An octopus is a reasonable alternative, although it does more for your buddy than it does for you. For your information, an emergency swimming ascent is preferred over a buddy breathing ascent (one regulator shared) in most instances.

3. D. Any or all of the above. It is important to distinguish which second stage is the extra one so it can be readily identified. Colored housings, mouthpieces and tape on the hose are all acceptable ways to do this.

4. C. The octopus is in the wrong port. Most of today's second stages have downstream valves and will freeflow if the intermediate pressure is too high. If the hose is screwed into the high pressure port on the first stage, the regulator will freeflow. With some second stages, mounting the hose in the wrong port will damage the regulator and rupture the hose. To avoid problems, have your octopus installed by a professional dive store.

5. D. Either B or C by prior agreement, but not A. Some people feel it helps for the person needing air to know the regulator is functioning, so they use the octopus themselves and give it up for the primary second stage in an emergency. Others, including myself, feel it is important that the regulator remain in your mouth at all times, so opt for giving a diver in need the octopus. What matters most, however, is that you and your buddy agree on emergency procedures before the dive. This prevents confusion and problems underwater.

6. C. Will orient the regulator in the correct position for use. With so many different regulators, it just isn't possible to specify how an octopus hose should be oriented. It is important, though, that it be oriented in such a way that the regulator will not be upside down when used. Some second stages are right-handed, some bi-directional, and some, left-handed. Again, reviewing the procedures and the configuration before the dive can help prevent difficulties.

7. A. Attached so it can be reached by the donor or the diver in need. If the octopus is allowed to hang free, it can freeflow, become clogged or snag on things. Several options are available to secure the octopus so it can be freed by either the donor or receiver and one of these should be employed. I feel the attachment means can and should be improved and hope that an ideal means will be developed and widely accepted so it will become standardized.

8. C. Both A and B. In very cold water, the extra flow of air in the first stage of the regulator can cause it to freeze. When a diver has experienced an out-of-air emergency and uses an octopus, anxiety and breathing rate will probably be quite high, so the remaining air can be depleted rapidly. In both cases, the divers should be aware of the potential problem and use the extra second stage only to make a safe ascent. In non-emergency situations the octopus can be used differently.

9. A. The divers should hold onto one another. This is a bit of a trick question, but it is the most correct answer. Actually, the divers should hold onto one another during a shared air ascent and the receiver should be to one side, at a right angle to the donor. This puts less tension on the hose and allows both divers to swim freely.

10. D. On all dives unless a backup unit is available. An extra scuba unit (pony bottle or Emergency Breathing System) is always the preferred emergency option, but an octopus is the next best thing. Depth is only a minor factor when entanglement is considered. For many reasons, experts and training agencies recommend the use of an octopus for all dives.

The purpose of this quiz is to get you thinking about an extra second stage. Do you have one? Do you realize its importance? Is it attached properly? Do the people who dive with you know how to use it? These are questions you need to answer and your answers determine how safe you will be in an out-of-air situation.

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Wreck Facts



BY ELLSWORTH BOYD

When a ferry boat operator in the late 1700s and early 1800s spoke of horsepower, sometimes he was referring to the real thing: boats powered by horses! A little known and rare piece of Lake Champlain history, the horse-powered ferry, was discovered recently by divers in the bay near Burlington, Vermont. The find was so rare it drew the attention of the state of Vermont, the Champlain Maritime Society and Smithsonian Institution.

Jim Kennard, Fairport, New York and his buddy, Scott Hill, were surveying the lake when they uncovered the honest to goodness horse-powered boat. Kennard says, "From what we've researched, there were only a dozen of these horse-powered ferries built. Power for the craft was produced by teams of horses walking in place on a huge treadmill. Using a system of gears, the power was transferred to paddlewheels that propelled the boat. It was ideal for Lake Champlain's short ferry crossings to islands where there were farms. Little is known about these rare horse boats, their use, demise and background, but divers hope publicity will draw people who can furnish clues to them."

Barry Jordan, Virginia Beach, Virginia writes that divers have been on the *Luckenback* and *Morgan*, two of the Triangle Wrecks, 31 miles east of Cape Henry. The twin screw *Lillian Luckenback*, a bulk carrier, sank in a collision in 1943, while the *John Morgan*, a liberty ship, sank in a collision on its maiden voyage that same year. The state of Virginia asked the Navy for more ships to form the triangle as part of an artificial reef program and now three others—all liberty ships—rest in approximately 115 feet: the *George P. Garrison*, *James Haviland* and the *Edgar Clark*.

Harry Cooper publishes an interesting newsletter called Sharkhunters that tells all about German subs, past and present. Harry writes: "Readers keep asking if it was true that disguised U-boat officers, in the beginning of World War II, would row ashore in rubber boats and go to dinner, the theater, etc. in New York, Miami, Jacksonville and other cities. These were mostly war rumors with little truth to them. I did however, receive an interesting item recently. A Florida professor confirmed that U-boat crews did have a secret spot on the American shore where they occupied an old building in a remote area." Harry will give us more details on this later. His address is: P.O. Box 537, Fox Lake, IL 60020.

Derrick Guy, Thomaston, Georgia would like information on the wreck of the *Evening Star*, a ship that went down off the coast of Georgia. She is a steam sidewheeler, Derrick, 2,014 tons, built in 1863. The *Evening Star* foundered on October 3, 1866 about 100 miles off Tybee Island: 247 lives were lost.

Richard Criscudla, Woodhaven, New York asks for information on wrecks in the Rockaway and Jones Beach areas and in Delaware and Sullivan counties, New York. There are excellent shipwreck listings on the former two, Richard, in: *A Guide to Sunken Ships in American Waters* by Kaplan and Lonsdale. The book is out of print so you'll have to locate it in a large library, marine museum or an old book store. Contact Mike Weiner, 11 Creek Bend Drive, Fairport, NY 14450. He might have some charts that depict these wreck locations. As for the lakes in the counties you are interested in, write to: John Costello, 499 Warren Building, Syracuse, NY 13202. He has done a lot of Finger Lake research. So has Peter O'Dell, 81 Steel St., Auburn, NY 13021.

Monica Foster lives on the other side of the world in Papua New Guinea, but I've corresponded with her frequently. She has enhanced my foreign stamp collection and enlightened me on shipwrecks of Rabaul, the East New Britain province of Papua. The Japanese occupied the northern end of New Britain between 1942 and 1945, using Rabaul as a base to mount their penetration south toward Australia. Although battles raged farther south in the Solomons and Coral Sea, none were as decisive in stopping the Japanese penetration as the destruction of their strategic base at Rabaul.

Monica writes: "My husband is an electrical supervisor for the government and I am a nurse educator for the local hospital. Papua gained independence from Australia in 1975. Rabaul is a beautiful, sleepy little place with about 10 scuba divers who dive on at least 10 different wrecks. So far we have identified the *Hakkai Maru*, a 5,000 ton cargo ship; *Kenskin Maru*, a 4,000 ton cargo carrier full of ammunition; *Hokaru Maru*, a 4,000 ton cargo ship; *Italia Maru*, a 7,000 ton fuel vessel; *Koan Maru*, a 4,000 ton water carrier; and the *Manko Maru*, a 2,000 ton refrigeration ship. Recently, we found five others we can't identify."

I sent Monica the addresses of authors Klaus Lindemann—*Hailstorm Over Truk Lagoon*; Dan Bailey—*World War II Wrecks of the Kwajalein and Truk Lagoons*; and Phillip Rosenberg—*Shipwrecks of Truk*. All have been helpful in addition to: the Department of the Navy, the National Archives, the International Research Organization and the Japanese Naval Academy and Maritime Self Defense Force. Monica discovered a book: *Air War Against Japan 1943-1945*, by George Odges that lists Japanese losses of 820 aircraft, 30 surface naval vessels, 154 cargo ships, 517 barges and four submarines, all in Rabaul waters.

There remains only one major drawback, a sizeable volcanic eruption expected in Rabaul in the near future. Get in lots of diving now, Monica and report back to us before the big blast. If readers want to drop her a line, Monica's address is: P.O. Box 500, Rabaul, East New Britain Province, Papua New Guinea.

More interesting books and reliable book stores have been discovered. One is: Adventure Books, 2 Coachman's Square, New Canaan, CT 06840. Send one dollar for their catalog which lists interesting shipwreck and nautical publications. James Keller's new book: *The Unholy Apostles—Tales of Chequamegon Shipwrecks*, is about wrecks of the Apostle Islands on the South Shore of Lake Superior. It includes names, dates, locations, sizes of sunken ships and historical accounts of them. Wrecks from 1870 to 1930 are listed, accompanied by maps of the disasters. Order from: James Keller, P.O. Box 751, Bayfield, WI 54814. The price is $10.95.

Divers who frequent North Carolina's Graveyard of the Atlantic might be interested in two books by Ed Caram: *U-352 Pictures and Reports* and *Records and*

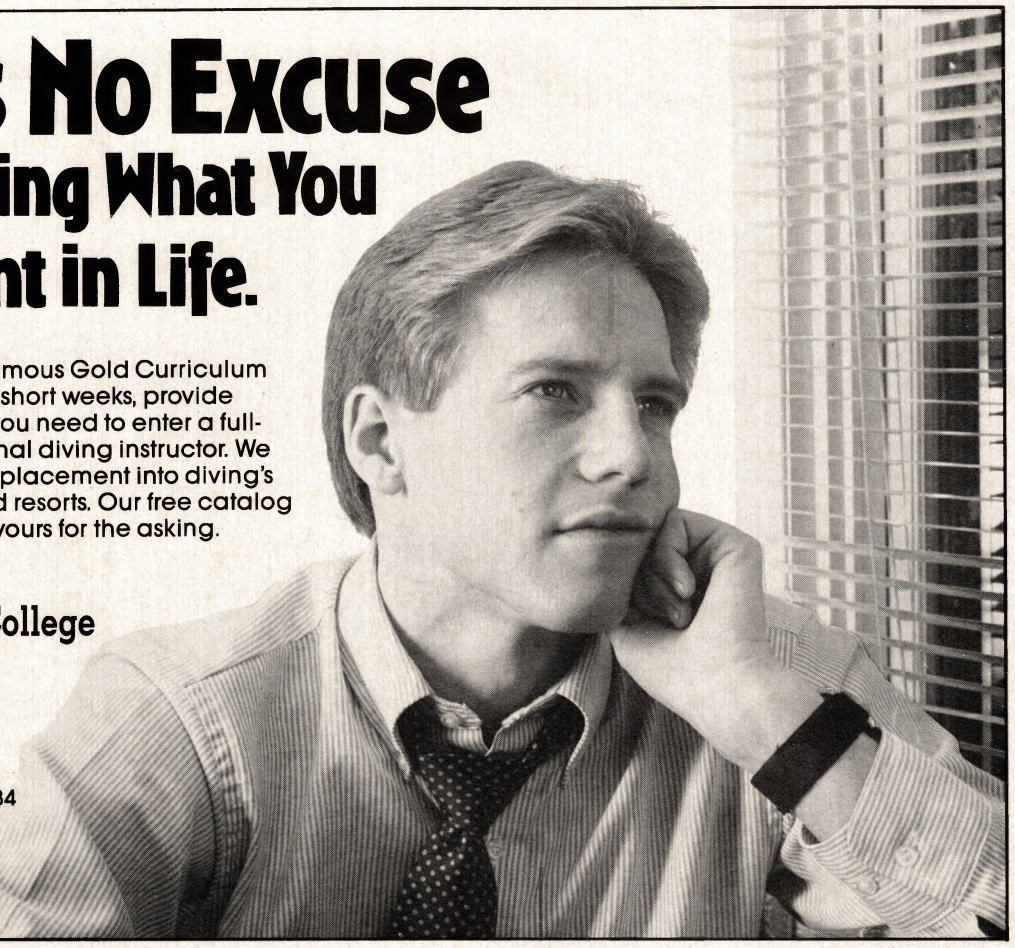
(Continued on Page 107)



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NAUI COLLEGE SCHEDULING

NAUI College has introduced private and flexible schedule classes designed for the busy professional or student. Candidates who find the regularly scheduled course offerings in conflict with their work schedules are encouraged to call the school's administrative office for details. Financing is available.

CO COURSES

The College of Oceaneering has created three new courses to more effectively fill the needs of professional diving contractors: Commercial Air Diving, Mixed Gas Diving and Bell Diving.

Commercial Air Diving is the basic course for surface supplied air diving for entry level diver/tender positions. The course is 10 weeks (400 hours) in duration and allows graduates 30 units toward an associate in applied science degree.

The Mixed Gas Diving course will allow students to receive thorough training in surface supplied gas diving for the commercial industry, primarily in offshore construction and petroleum-related assignments. The course is three weeks (120 hours) in length and grants students eight units toward an associate in applied science degree as well as meeting the international regulations for dives in excess of 165 feet.

The Bell Diving course has been designed for advanced students who need the certification necessary for closed bell dives. The four week, 160 hour course extends the education needed to operate safely in deeper water. Course graduates will earn 10 credits toward an associate in applied science degree.

INTERNATIONAL U/W PHOTO CONTEST

The Houston Underwater Club (HUC) is sponsoring an International Underwater Photography Contest in conjunction with its Seaspace '85 colloquium June 21-23 at the Shamrock Hilton Hotel.

Categories in this competition include diving-related surface slides and underwater categories of novice slides, open slides, slide series with taped narration, color prints, black and white prints, freshwater slides, experimental photography and 16 mm film. A new underwater category added for 1985 is the underwater video competition.

The winning photos are viewed by the entire Seaspace film festival audience (3,000-4,000 people) and the winners receive both prizes and highly coveted awards especially designed and executed by Robert L. Straight.

For further information or a contest entry form, write: Seaspace, Houston Underwater Club, P.O. Box 3753, Houston, TX 77252-3753. The deadline for entries is May 25.

CAVE DIVING WORKSHOP

The National Speleological Society, Cave Diving Section will hold its spring workshop May 25-27 in Branford, Florida at Branford High School. The theme will be technical skills, equipment care and upgrading. Those interested in attending should contact: NSS/CDS, Workshop Chairman, 2640 Beverly Rd., Winter Park, Florida 32789.

NJ SYMPOSIUM AWARDS

DAN (Divers Alert Network) was honored at the 8th Annual Dive NJ Symposium with the Distinguished Diving Achievement Award for its ongoing service to divers. Joe Pakan, a DAN representative, accepted the award from Lee Ward, the NJ Dive Council's director of public relations.

John Janiga was also honored with the special Diving Service Award. John was recognized for his outstanding efforts in the Bahamas this year when he saved another diver's life by administering CPR.



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The Gray Moray

(Gymnothorax griseus)

The gray moray is a common marine eel of the Red Sea and most easily identified by the brown spots on either side of its head. The scientific species name *griseus* means gray, but most often the color of this eel is a pale yellowish-brown. ☐ Morays belong to the fish family Muraenidae, included in the order Anguilliformes (the true eels). There are at least 100 species of muraenids around the world, with 10 in the Bahamas, one in California and several in the Red Sea, spread from Eilat to Ras Muhammed. ☐ All morays have fang-like teeth, which give them the reputation of being ferocious when they're really not. Morays are in fact quite shy, hiding in rocks and crevices of the reef by day, venturing out to feed only at night. The undeserved reputation may be owing to the fact that as the eel breathes, its mouth opens and closes regularly to reveal numerous sharp teeth. ☐ The skin of all eels is leathery and scaleless. Morays differ from other eels in that they lack pectoral fins. *Gymnothorax* means naked breast, in reference to this lack. Morays also have small, roundish lateral openings that serve as gills. ☐ The gray moray is long and slender and reaches a maximum length of about 20 inches. It is the smallest of the morays that inhabit the Red Sea. The related *G. nudivomer* of the south is said to grow to six feet. ☐ Like other muraenids, the gray moray feeds on shrimp, octopus, mussels and clams. It is a shallow-water scavenger and predator, locating its food largely by smell. Morays are said to be potentially dangerous to divers but attacks on man usually occur because the animals have been speared or poked accidentally. Divers are cautioned to keep their hands out of holes or under ledges, where morays are likely to be. ☐ The muraenids have a long history; moray teeth have been found in a Pleistocene deposit estimated to be nearly two million years old. Individual morays live to a ripe old age, too; some have been known to survive more than 25 years. Young morays about a foot long are very yellow. The prejuvenile muraenids go through a pelagic larval period called the leptocephalus stage. These are transparent, ribbon-like forms that float in the open-ocean currents until they settle on reefs and grow into recognizable juveniles.



Photo By Carl Roessler - Text By Hillary Hauser

Roessler took the photo in 40 feet of water off Sharm el Sheikh in the Red Sea. He used a Nikon F and 55 mm macro lens in a Niko-Mar housing, Bauer E252 strobe. Kodachrome 64, f11, 24 inches from subject.



Diver's Calendar

March 2 Boston diving show, Underater '85, at the Park Plaza Hotel. (Contact Fred Calhoun, P.O. Box 291, Back Bay Annex, Boston, Massachusetts 02117; (617) 532-5431)

March 2 The Stan Waterman Show, John Hancock Hall, Berkeley St., Boston, MA. (Contact: Fred Calhoun, P.O. Box 291, Back Bay Annex, Boston, MA 02117; (617) 532-5431)

March 2 Ninth Annual Diver's Showcase, Lansing, Michigan. Sponsored by the Capitol City Dive Club at the International Center, Michigan State University. (Contact: CCDC, P.O. Box 1055, East Lansing, MI 48823)

March 9 Boston Sea Rovers 31st Annual Underwater Clinic. Day program at the Copley Plaza, film festival at John Hancock Hall. (Contact: Bunky Hodge, 174 Beech St., Rockland, MA 02370)

March 14 Benefit Underwater Film Show with cinematographer Bill Lovin at Flora MacDonald College Auditorium, Red Springs, NC. (Contact: P.O. Box 547, Red Springs, NC 28377; (919) 843-4139)

March 15-17 Beneath the Sea, the Ninth Annual Greater New York Underwater Exposition, Marriott Hotel, Tarrytown, NY. Pool demonstrations, films, lectures, photo workshop and exhibits. MC Dr. Eugenie Clark. (Contact: A. Zigahn, BTS, P.O. Box 644, Rye, NY 10580)

March 16 Underwater New York, the 14th annual scuba seminar sponsored by the Auburn Skindivers at the Holiday Inn, Auburn, NY. Films, displays, photo contest. (Contact Peter Odell, 81 Steel St., Auburn, NY 13021; (315) 255-1041)

March 20 Entry deadline for the South Florida Underwater Photographic Society's Internatonal Underwater Photography Competition. Prizes awarded for first, second and third place in each category plus best of show. Official entry form required. (Contact: SFUPS, Susan M. Payette, 1141 NE 142nd St., North Miami, FL 33161)

March 25 Entry deadline for the Northern California Chapter of the Underwater Photographic Society sponsored 21st Annual International Underwater Photographic Competition. Winners exhibited at the Sea '85 Film Festival May 11. (Contact: Don McMahan, P.O. Box 9001, Pleasanton, CA 94566)

March 29-31 Underwater Canada Sport Diving Program, Constellation Hotel, Toronto, Canada. (Contact: U/W Canada, 1220 Sheppard Ave. East, Willowdale, Ontario, Canada M2K 2X1; (416) 495-4245)

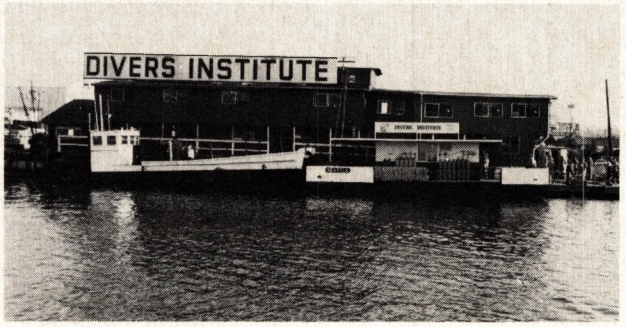
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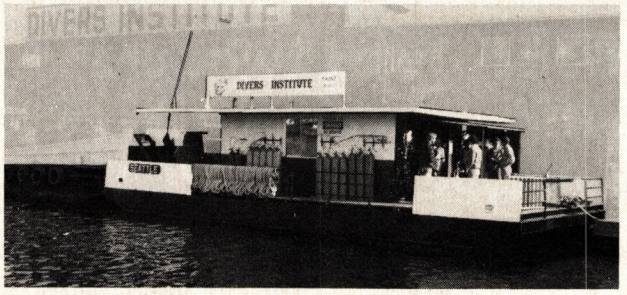
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OXYGEN THERAPY COURSE

The fifth DAN Diving Accident and Hyperbaric Oxygen Therapy course will be held March 7-9 at the Searle Center for Continuing Medical Education, Duke University Medical Center, Durham, NC. The course director is Peter B. Bennett, Ph.D., D.Sc. The course is approved by the AMA through the UMS for 22 hours of Category I credit; 22 hours of Category A from the NC Medical Society; Category I credit from the American College of Emergency Physicians; and prescribed credit from the American Academy of Family Physicians.

For information contact: Cindi Easterling, M.Ed., Office of Continuing Medical Education, Box 3108, Duke University Medical Center, Durham, NC 27710.

CAVE AND CAVERN COURSE

The National Association for Cave Diving (NACD) will host its third Cave and Cavern Diving Orientation course for scuba instructors, assistant instructors and divemasters March 30-31.

The Saturday portion will be held at Manatee Springs State Park near Chiefland, Florida. On Sunday the course will move to Ginnie Springs.

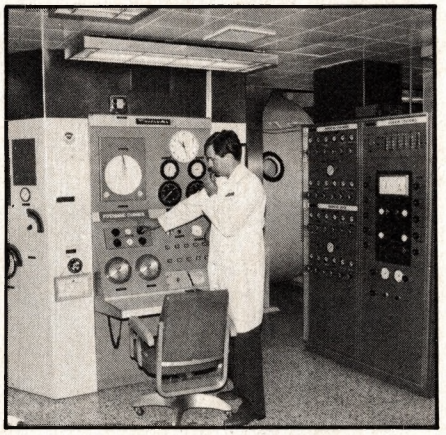
Those who successfully complete the cavern diving training portion of the course will receive the NACD cavern diver certification card. Pre-registration is required. Workshop fees are $45 for those registered by March 15 and $60 thereafter. The cost includes the course and the diving fee at Ginnie Springs.

For information contact: NACD General Manager, P.O. Box 14492, Gainesville, FL 32608.

SCUBA DIVER CLINIC

To meet the need for low cost medical evaluations for divers, Edgewater Hospital, on Chicago's northside, has recently opened a Scuba Diving Clinic. For $50 the diver receives a complete history and physical examination, a chest x-ray, a urinalysis and a blood count. For an additional $5, an EKG and sickle cell prep are also included when indicated. The medical records of every diver seen in the clinic are available for future reference in the Hospital's Hyperbaric Unit, should recompression therapy be needed for a diving related problem. The clinic meets on Thursday afternoons and a maximum of four new patients per week can be seen. Those interested can call (312) 878-6000, extension 642 for an appointment.



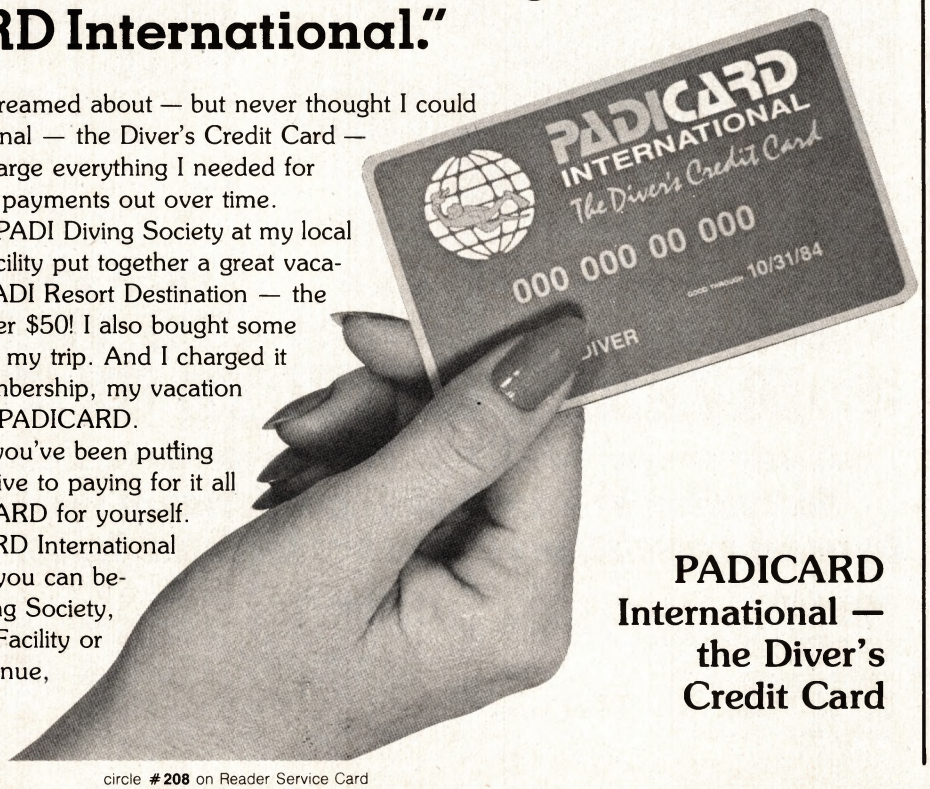


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EKTACHROME 800/1600 FILM TEST



TEXT AND PHOTOGRAPHY BY JIM AND CATHY CHURCH

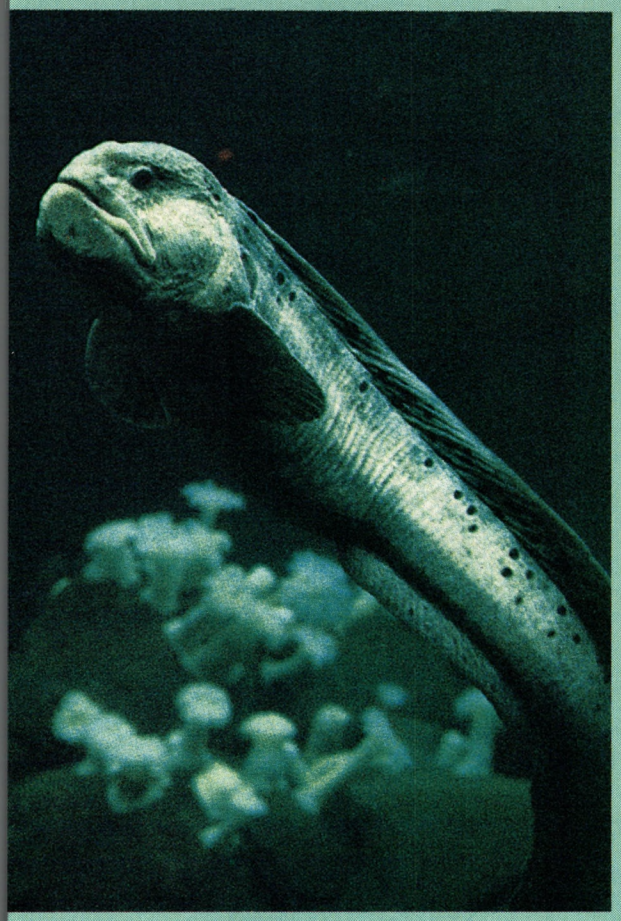
Designed specifically for push processing, Kodak's new P800/1600 Professional Film can be exposed (and processed) for ISO 400, 800, 1600 and even 3200! It is intended for photography in dim light, for action or sport photography or where increased depth of field is needed. For U/W photographers who wish to take sunlight exposures in dim conditions, P800/1600 provides a valuable option. You can select your film speed underwater, after you have taken an exposure meter reading.

When compared to other fast films, with ISO speeds from 400 to 1600, P800/1600 allows you to choose from a range of ISO speeds. You simply expose for the speed of your choice and mark what you used on the side of the cassette. You can process P800/1600 at home with Kodak standard E-6 or Hobby-Pac chemicals or send it to Kodak or another professional lab. Note: Kodak (re: Palo Alto lab, at this writing) will process for ISO 400, 800 and 1600 only; Kodak won't process for 3200. As for Kodak's claims for quality, their press release states that "Although recommended for exposure at ISO 800 or 1600 for the best picture quality, the new Ektachrome film can be exposed at ISO 3200 with very acceptable results . . . ." If exposed for ISO 400, a 10Y (yellow) color correction filter is needed.

TESTING P800/1600

Because we only had four rolls to work with, we decided to concentrate on exposing at ISO 1600 and 3200. To us, these higher speeds are the most important feature of the film. After all, regular Ektachrome 400 can be easily pushed to ISO 800 and doesn't require a 10Y filter.

Using ISO 1600, we exposed one roll at the *Rhone* in the BVI and one roll at the *Cartanser* in the USVI. The other two rolls were exposed at the Monterey Bay Aquarium, one at ISO 1600 and one at



Opposite page: The underside of a bat ray, Monterey Bay Aquarium. Kodak's new Professional Ektachrome P800/1600 allowed the authors to get the shot through a window, using dim available light. The exposure was taken at f2.8, 1/60 second and Cathy processed the film at ISO 1600 using Kodak Hobby-Pac E-6 chemicals.

Left: A wolf eel, Monterey Bay Aquarium. This shot was also taken through the aquarium window, utilizing dim light. The exposure was taken at an aperture of f4 and shutter speed of 1/60 second. Cathy processed the film (E-6) at ISO 3200.

KODAK TEST STRIPS

Because push processing is more sensitive to variations than normal processing, Kodak can provide special Push-Process Setup Strips, Process E-6P. These are used to establish first developer times for P800/1600. The strips must be stored at 0°F or lower. After removing the strips from the package, reseal it and return it to the freezer within a half hour. The reference strip should be protected from light and stored at room temperature. (These strips weren't available to us at this writing.)

While the Kodak Push Process test strips are a must for determining exact development times for commercial processing or exacting professional work, we believe most photographers may find it easier to simply experiment. Standardize with time, temperature and agitation and always use fresh chemicals.

ISO 3200. We chose these particular sites because we had used other fast films in these areas. (See 3M's New Color Slide 1000 Film, SDM, 11/84; and Agfachrome 1000, SDM, 2/85).

At the huge aquarium, without the bother of bad weather, wetsuits, cold water and surge, we were able to carefully expose the last two test rolls. The apertures ranged from f2.8 to f4 at 1/60 second. We didn't use strobe—all exposures were made with sunlight penetrating the tops of the tanks and whatever overhead lights may have been on above them.

If exposed for ISO 400, Kodak recommends the normal six minute E-6 first developer time. For Push 1 processing (ISO 800), 8 to 9 minutes; for Push 2 (ISO 1600), 10 to 13 minutes; for Push 3 (ISO 3200), 12 to 15 minutes. We had heard that another author testing P800/1600 found his slides too dark. And, as we were only holding four exposed rolls and the deadline was approaching, we were nervous about the processing time.

Cathy cut the ISO 1600 aquarium roll in half and processed the first half with Kodak Hobby-Pac E-6 chemicals. She used the recommended 100°F, maintained a constant temperature with a Photo-Therm Temperature Control Bath, agitated every 30 seconds and used the upper end of the first developer range (13 minutes). The resulting slides had good exposure in the shadow areas, but the white anemones were overexposed. She processed the second half of the roll a half minute less to hold back highlights.

The ISO 3200 roll was also cut in half. The first half was processed at the upper end of the Push 3 range (15 minutes). The slides had a slight yellow cast, but were very acceptable. Cathy experimented with the second half of the ISO 3200 roll by using a warmer temperature/time combination (106°F and 12 minutes) to shift the color balance to blue. The results were disastrous—much too blue and the blacks seemed foggy.

Cathy processed the two rolls of open water slides for ISO 1600 at the normal 100°F and the upper range time for Push 2 (13 minutes).

OUR TEST RESULTS

The midrange exposures of most of the slides were excellent. Both the *Rhone* and *Cartanser* sunlight interior shots showed excellent detail in the shadow areas and had good depth of field. But when there were a lot of highlight areas in the picture, such as bright hatchways and portholes or white anemones, these areas overexposed easily. We also overexposed several slides during Jim's flash fill experiments at the *Cartanser*. His best fill lighting occurred when he turned his SB-102 to 1/16 power and placed a white cloth and the wide angle diffuser over the reflector. Learning to use a strobe with such a fast film will take some practice, because you keep thinking you need more light than you really do.

In our opinion, P800/1600 provides good contrast in flat, dim lighting without bright highlights. While we could see some grain, as would be expected with any high speed color slide film, it was much less than we expected for a film pushed to speeds up to ISO 3200. Kodak's P800/1600 seemed to handle colors reasonably well. Our flash fill pictures had good flesh tones and a nicely saturated yellow on Cathy's BC. In the sunlight exposures, of course, there wasn't much color to work with.

Kodak P800/1600 Ektachrome Professional Film (EES 135-36) is available in 36 exposure, 35 mm cassettes. The suggested retail price is $10.76 for the film and $5.85 for processing and mounting for standard E-6 (ISO 400) processing. For Push 1 (ISO 800), there is an additional processing charge of $2.50; and for Push 2, $3.50. P800/1600 should be stored at 55°F or lower and should be processed promptly after exposure. For more information about Kodak films and processing, write to Eastman Kodak Company, 343 State Street, Rochester, NY 14650.

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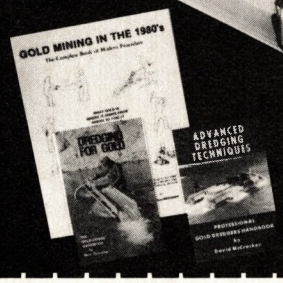
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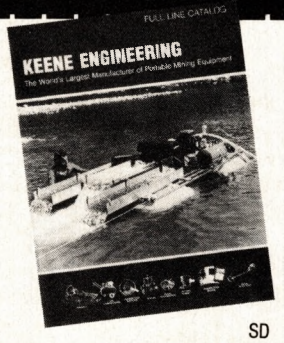
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GARRETT SWEEPSTAKES WINNERS

Recently, thousands of treasure hunters, coin hunters and electronic prospectors visited Garrett dealers across the nation to see Garrett's new Green Sweep line-up of metal detectors. While they were in the stores they signed up to enter the Super Green Sweepstakes. The



grand prize winner was Ronald L. Lasko of Ft. Walton Beach, Florida, who submitted his coupon through John Collins of Collins Treasure Cove, Ft. Walton Beach, Florida. Lasko won a $1,000 United States Savings Bond and a new 1984 Freedom 2 detector. There were five first place winners who received $200 U.S. Savings Bonds; ten second place winners who received $100 U.S. Savings Bonds and 50 third place winners who received $50 U.S. Savings Bonds. Each of the winners who had purchased a new Garrett detector since January 1, 1984 received double U.S. Savings Bonds.

CONCEPTION/TRUTH FILM

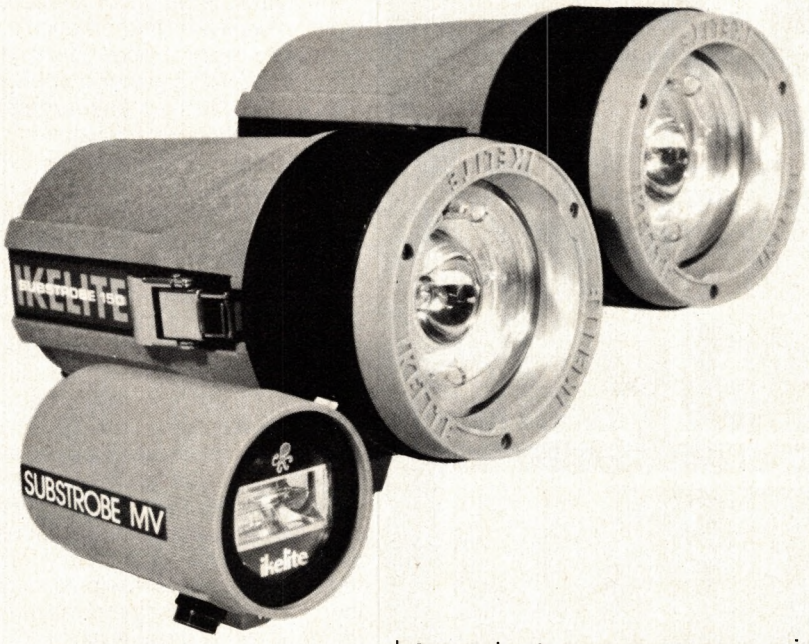
Diving California's Channel Islands is a new film produced by Bill MacDonald. It highlights the comfortable lifestyle aboard the dive boats *Truth* and *Conception*, promotes multiple day dive trips to the Channel Islands and illustrates boat diving techniques. The sound track features Crosby, Stills and Nash.

The 19 minute, full color film is available in 16 mm as well as VHS, Beta and U-Matic video from Bill MacDonald, P.O. Box 225, Surfside, CA 90743.

CAPE ANN BOAT

Captain Fred Calhoun has acquired a new *Easy Diver*, to be put into service soon. The new *Easy Diver* is a custom built 30 foot boat with a walk-through transom and dive platform. The boat is powered by a Perkins 350 diesel, controlled from the flying bridge or enclosed cockpit. Two tank dive trips to the sheltered and offshore dive spots of Cape Ann will run on weekends and holidays from the Cape Ann Marina in Gloucester, Massachusetts.

IKELITE SUBSTROBES with TTL



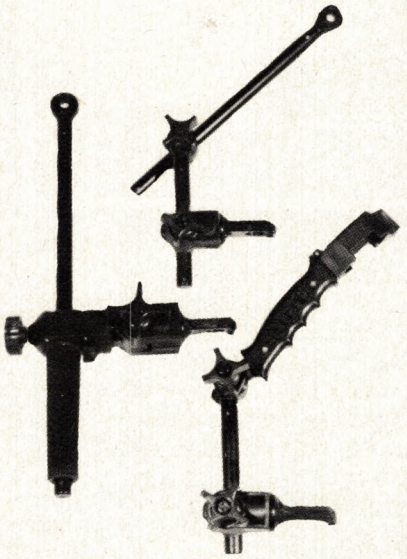
TTL AUTOMATION

IKELITE SUBSTROBES offer automatic Through-The-Lens (TTL) flash exposure control when used with the Nikonos V camera. The TTL system automatically compensates for distance, f-stop, extension tubes and filters. SUBSTROBES offer additional features such as multi-power settings, fast recycle, high intensity output, slave mode, built-in modeling light and ultra-wide coverage. With the addition of TTL automation, no other underwater strobe system offers the features and dependability of an IKELITE SUBSTROBE.



NON-TTL AUTOMATION

With the optional Flash Monitor, a remote auto sensor, all SUBSTROBES offer Non-TTL auto exposure control with any underwater camera system. The Monitor will automatically produce accurate exposures over a wide range of strobe-to-subject distances.

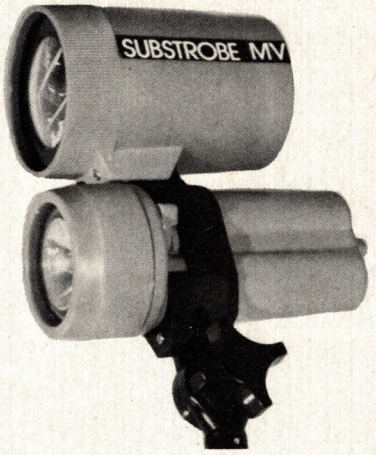


ARMS

The Quick Handle is especially suited for the larger SUBSTROBES. It features an 18 inch adjustable arm and quick release for easy hand holding. The Strobe Arm and Strobe Handle are more suited for the smaller SUBSTROBES. They are available in single and double section models for added versatility and both accept the Lite Bracket.

LITE BRACKET

The Lite Bracket permits the Ikelite Mini C-Lite to be used as an aiming/modeling light with the M series SUBSTROBES. This combination is ideal for night photography.



OPTIONS

The SUBSTROBES have a detachable sync cord allowing easy removal for packing, interchanging of cords and addition of the Flash Monitor. Sync cords are available with Ikelite, Nikonos, Nelson and E/O connectors. Standard chargers, Quick chargers and additional battery packs are also available for some models.

Compare, and it is easy to see why SUBSTROBES are #1.

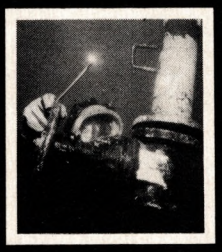
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SHIPWRECK LEGISLATION VIDEO

The Atlantic Alliance for Maritime Heritage Conservation has produced a two hour video tape of open forum discussions, concerning historic shipwrecks, held during the Fort Lauderdale shipwreck conference in August. It has been edited to provide an objective overview of the major issues, both pro and con, surrounding the attempt to pass the shipwreck bills HR-3194 and S-1504 in the 98th Congress. Paul Tzimoulis, Mel Fisher, Ellsworth Boyd, Barto Arnold, Bob Marx, Anne Giesecke, Dave Horan, Jim Miller and many others, including sport divers from the audience, discuss the issues as they defend different positions.

The Atlantic Alliance is providing this tape at no charge as a public service. However, in exchange for its free use, it is asking all recipients for a donation toward defraying the video production and distribution costs—$25 from individuals and $100 from professional organizations, government agencies, museums and educational institutions.

All requests for the tape should be sent along with donation to: Paradigm Video Productions, Atlantic Alliance Educational Video, 301-C Penthouse Suite, Tara Condominium, Key West, Florida 33040. All checks and money orders should be made out to the Atlantic Alliance for Maritime Heritage Conservation.

For more information about this tape and other educational video programs being prepared by the Atlantic Alliance, please contact Jerry and Rose Mary Radick, National Directors for Education, 223 Southbridge, San Antonio, Texas 78216.

KOZMIK/AQUA VISION

Aqua Vision Systems, Ltd. of Canada has added photo-journalist, James Kozmik to its photo staff. He specializes in video as well as still photography.

FLORIDA COAST PROJECT

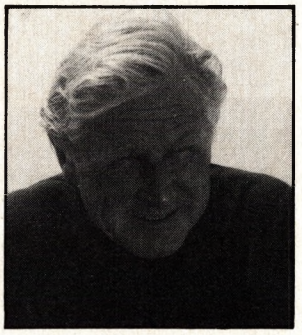
Coastal engineers recently began a project to save Florida's 800 miles of coastline from erosion caused by nature and man. "Nearly 550 of those 800 miles are critically damaged and in serious jeopardy of eroding, according to the National Shoreline Survey," said Dr. Hsiang Wang. He is chairman of the University of Florida's coastal and oceanographic engineering department. Wang helped spearhead the Florida Coastal Erosion Study, expected to last 8-10 years and cost $10 million to $20 million. Congress has appropriated $250,000 for the first phase.

Funding will not pay for beach restoration projects. It will pay for data collecting, surveys, inlet studies and a program

that will annually monitor and survey the 800 miles of coast bordering the Atlantic and Gulf, plus the 5,000 miles of coastline along bays and tributaries. Satellite and aerial photos will also be taken to assess and measure erosion.

YMCA SCUBA ANNIVERSARY

YMCA instructors around the world are celebrating the 25th year of YMCA scuba instruction by declaring 1985 the Year of Dive Refreshed. Lloyd Bridges is the national chairman of the YMCA dive refreshed campaign and he urges divers who have been inactive for a period of time or who dive infrequently to contact their local YMCA or YMCA scuba instructor to get refreshed on new equipment, new procedures and new fun with a free dive refreshed class. The address is: National YMCA Activities Program, Atlanta office, Oakbrook Square, 6083-A Oakbrook Parkway, Norcross, GA 30092; phone (404) 662-5172.

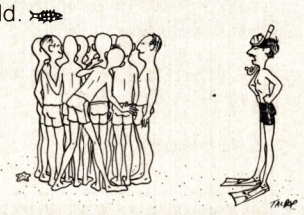


MEGAMOUTH

A 14½ foot megamouth shark was recently caught by a commercial fishing crew in California's San Pedro Channel. It is only the second such fish ever caught. The existence of this species was not known before 1976. Megamouths are large-mouthed plankton eaters and are normally deep water dwellers.

The tiny-toothed, 1,500-2,000 pound fish is one of many unusual animals being caught off Southern California this year. Others include green triggerfish and pufferfish, both tropical species. Marine biologists attribute the unusual catches to the lingering effects of El Nino, the warm water condition affecting climate zones worldwide since 1976.

Dead, but in good condition when it arrived at the Los Angeles County Museum of Natural History, the megamouth shark is being kept in formalin and will be studied by ichthyologists from around the world.



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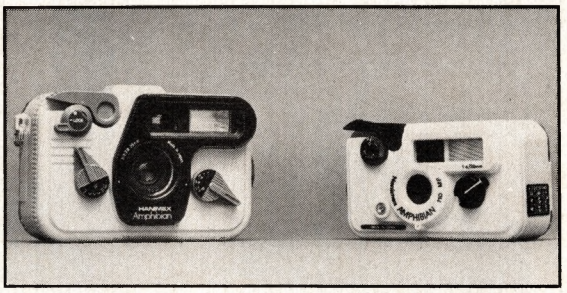
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All the others have missed the boat

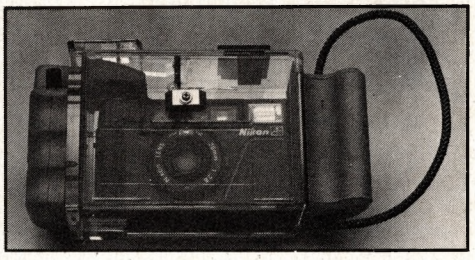
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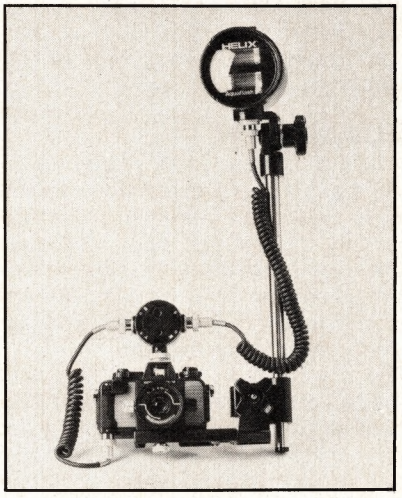
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Underwater reading...



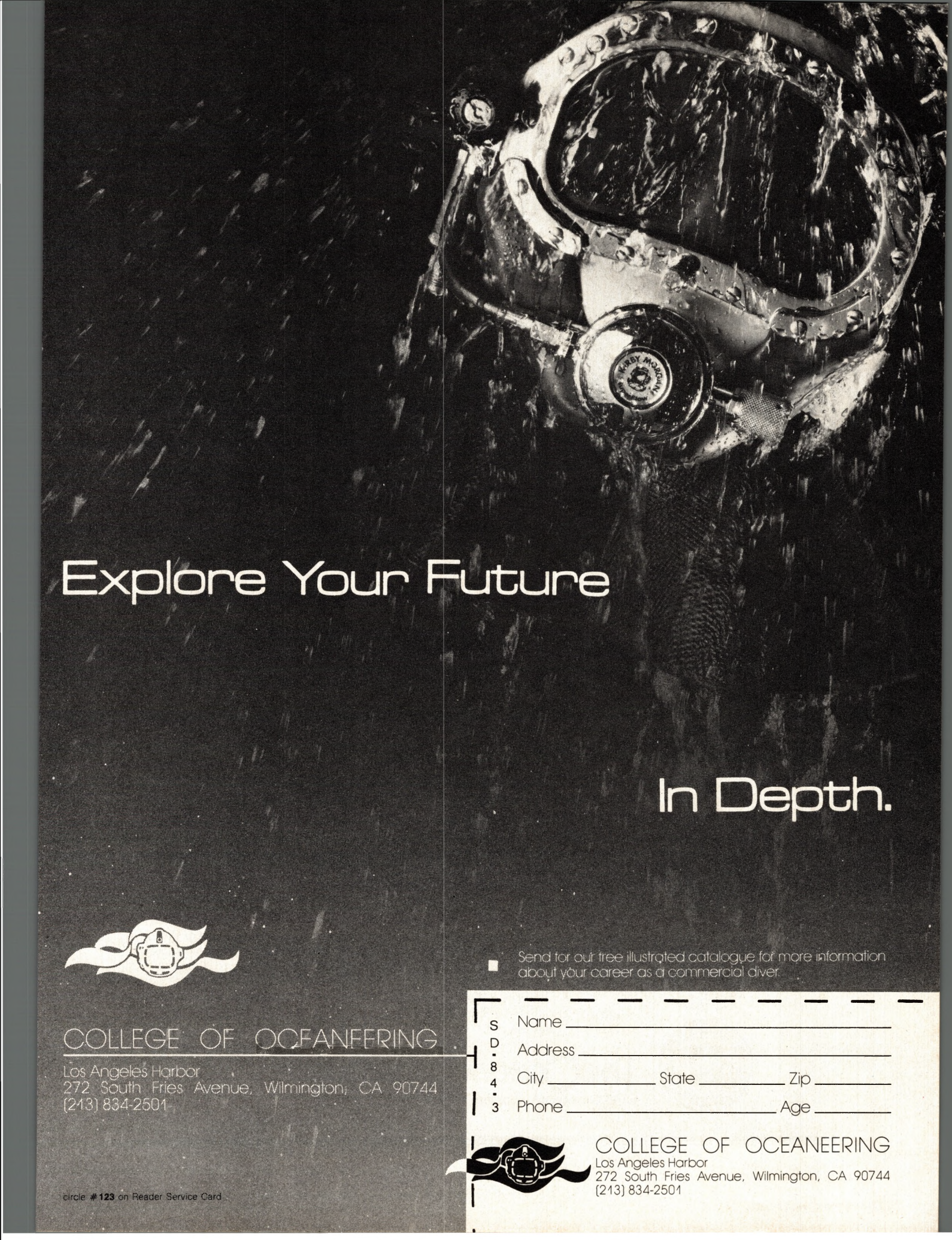
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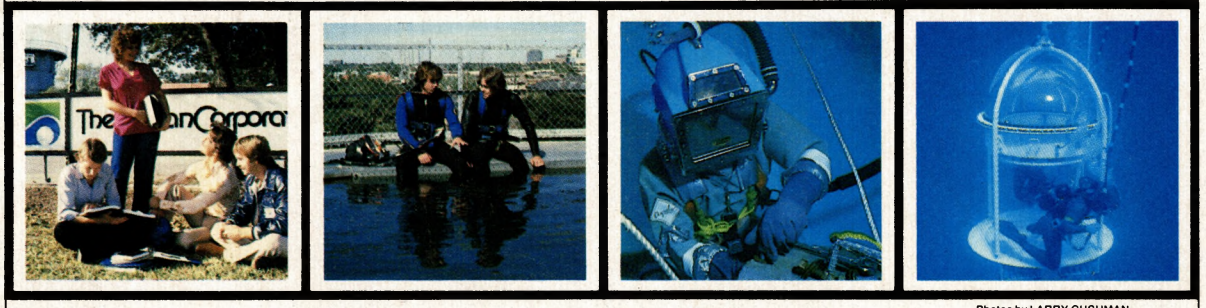
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Remember, all commercial diving schools are not alike. Check them out. Visit the school if you can. Look for real commercial diving professionalism and reputation, adequate facilities and equipment, experienced instructor staff, decent housing and living conditions, and, probably most important to you, ask them how they plan to help you get your first job in the commercial diving industry.

If you want to be a professional diver, contact our Admissions Department. Use the Reader Service Card or call us toll free - (800) 321-0298. You'll be glad you did.

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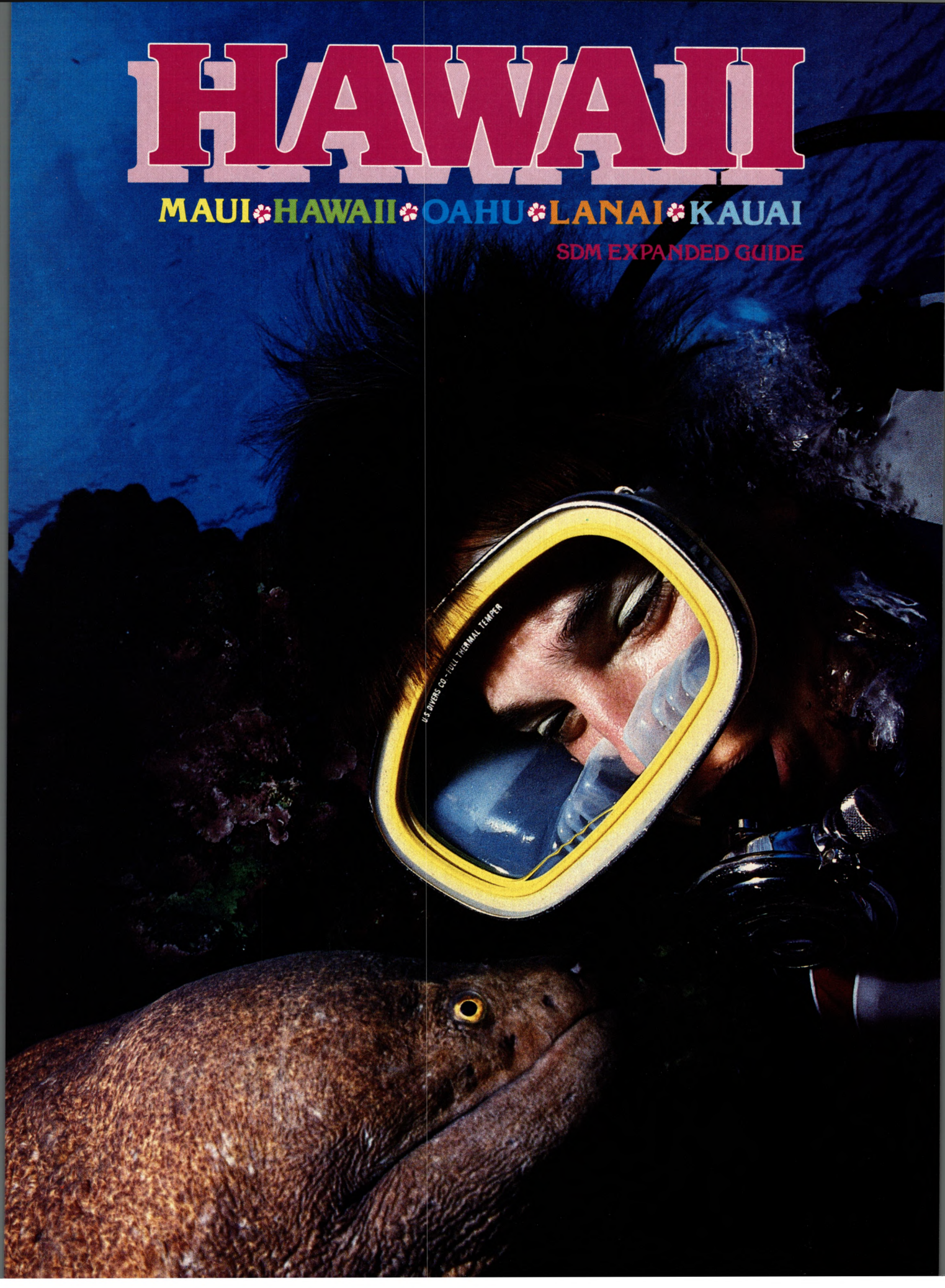
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HAWAII

MAUI ✿ HAWAII ✿ OAHU ✿ LANAI ✿ KAUAI

SDM EXPANDED GUIDE

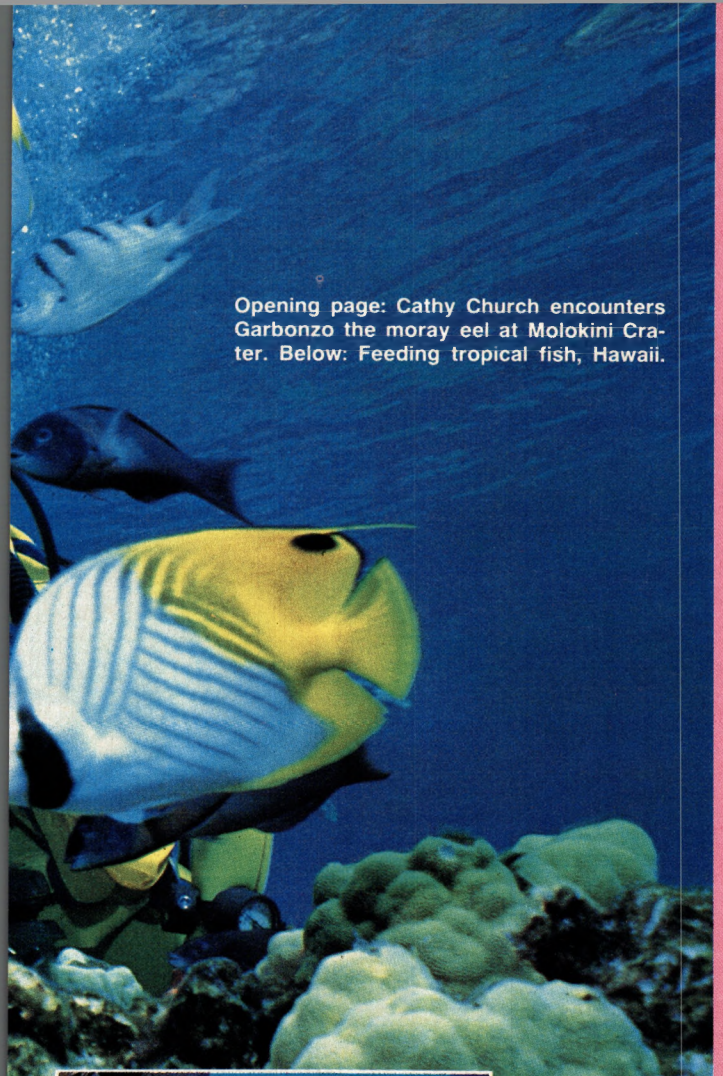




Hula dancer, Kauai Sheraton luau.

HAWAIIAN ISLANDS

America's Paradise In The Pacific



Opening page: Cathy Church encounters Garbonzo the moray eel at Molokini Crater. Below: Feeding tropical fish, Hawaii.



Second Cathedral, Lanai.



Opening the imu, Kauai Sheraton luau.

TEXT AND PHOTOGRAPHY BY JIM AND CATHY CHURCH

Terrain, fish and action are the key words that describe Hawaiian diving. You can explore twisting lava tunnels leading to breathtaking undersea cathedrals; you can handfeed bright, tropical fish and eel petting is common. You may be surrounded by dolphins, see huge manta rays glide by in the distance or see and hear whales.

The humpback whales migrate to Hawaii to breed between November and May. Listen for them underwater. Their beautiful songs can reach you from a mile away, but you will feel certain that they are just a few feet behind you. You will also see sharks—but don't worry, they are usually your divemaster's pets.

THE ISLANDS

There is much more to Hawaii than Honolulu and Waikiki Beach. The state includes the entire island chain from Midway to the big island of Hawaii. Dive operations are on Kauai, Oahu, Lanai, Maui and Hawaii. Each island has its own special personality and provides a completely different vacation for visiting divers and their families. Wherever you go, you will feel welcome.

The crescent-shaped chain of sun-drenched Hawaiian Islands lies about 2,400 miles southwest of California. Flying there is easy. The flight takes about five hours from West Coast cities, nine hours from Chicago and 11 hours from New York. Several U.S. airlines connect the U.S. mainland to Honolulu. United Airlines flies direct to Oahu, Hawaii, Maui and Kauai from San Francisco and Los Angeles. We had smooth, enjoyable flights from San Francisco to Oahu and back from Maui on United.

Although you are heading for a distant island paradise, Hawaii is still part of the U.S. Therefore, U.S. citizens need not fuss with passports, customs, immunizations or other red tape. English is the main language, electricity is 110 volt, U.S. dollars are the accepted currency and traveler's checks and major credit cards are generally accepted.

Hawaiian time is two hours earlier than Pacific time, three hours earlier than Mountain time, four hours earlier than Central time and five hours earlier than Eastern time. Thus, when phoning Hawaiian dive operators for reservations, be sure to consider the time of day. And, when planning your trip, plan ahead for time to recover from jet lag.

"Aloha, aloha" may be the first words you hear when you reach the islands. Aloha, the salutation of the Hawaiian Islands, is a greeting; an expression of friendship; and a farewell. Flowers and the aloha spirit are everywhere. Colorful Hawaiian clothing brightens your spirits and the musical tones of Hawaiian words are pleasing to the ear. Just arriving at a Hawaiian island is a festive event and you feel the excitement.

The weather, freshened by the trade winds, will probably be balmy. In the lowland and beach areas, such as Waikiki, temperatures will vary from about 65 to 80°F in winter, and 73 to 88°F in summer. Upland areas can vary from 50 to 70°F and mountain tops may have lows of 20°F. Winds can be blustery during winter and short rains are more frequent. In spring and summer, rainfall is less frequent and often occurs only at night.

Although light clothing can be worn throughout the year, a sweater or lightweight coat may be welcomed in air-conditioned restaurants or during the cooler winter evenings. Women usually wear muumuus, shorts or pants and may use a scarf or other

light covering to protect their hair from breezes. For men, a colorful Hawaiian shirt with either shorts or slacks is common dress, but a few restaurants may require coat and tie.

Several rental car companies—including Avis, Budget, Dollar, Hertz and National—can provide cars on Oahu, Maui, Hawaii and Kauai. Their Honolulu offices can make arrangements for rentals at any of the four islands. We used Avis cars during our visit and received excellent service. Avis provides separate drive guides with maps and details for each island and a coupon book for substantial discounts for meals, admissions to shows and other services. Campers are available on Oahu, Maui, Hawaii, Kauai and Molokai. A limited number of four wheel drive vehicles are available at these five islands and Lanai.

The location and quality of your accommodations usually determine the price. The closer you are to water, especially a beach, and the greater the quality, the higher the price.

TRAVEL BETWEEN ISLANDS

Interisland travel is easy. The three airlines—Aloha, Hawaiian and Mid-Pacific—connect the major airports with frequent daily flights and the smaller airports at least once a day. Most flights are less than a half hour. We flew with Aloha Airlines and were pleased with the friendly treatment we received. We were never charged for overweight baggage and our luggage was always delivered promptly after each flight. Aloha Airlines participates in United Airlines' Mileage Plus, Frequent Flyer Program. They give you a sticker entitling you to a 20 percent mileage bonus for each United Airlines flight.

THE DIVE OPERATORS

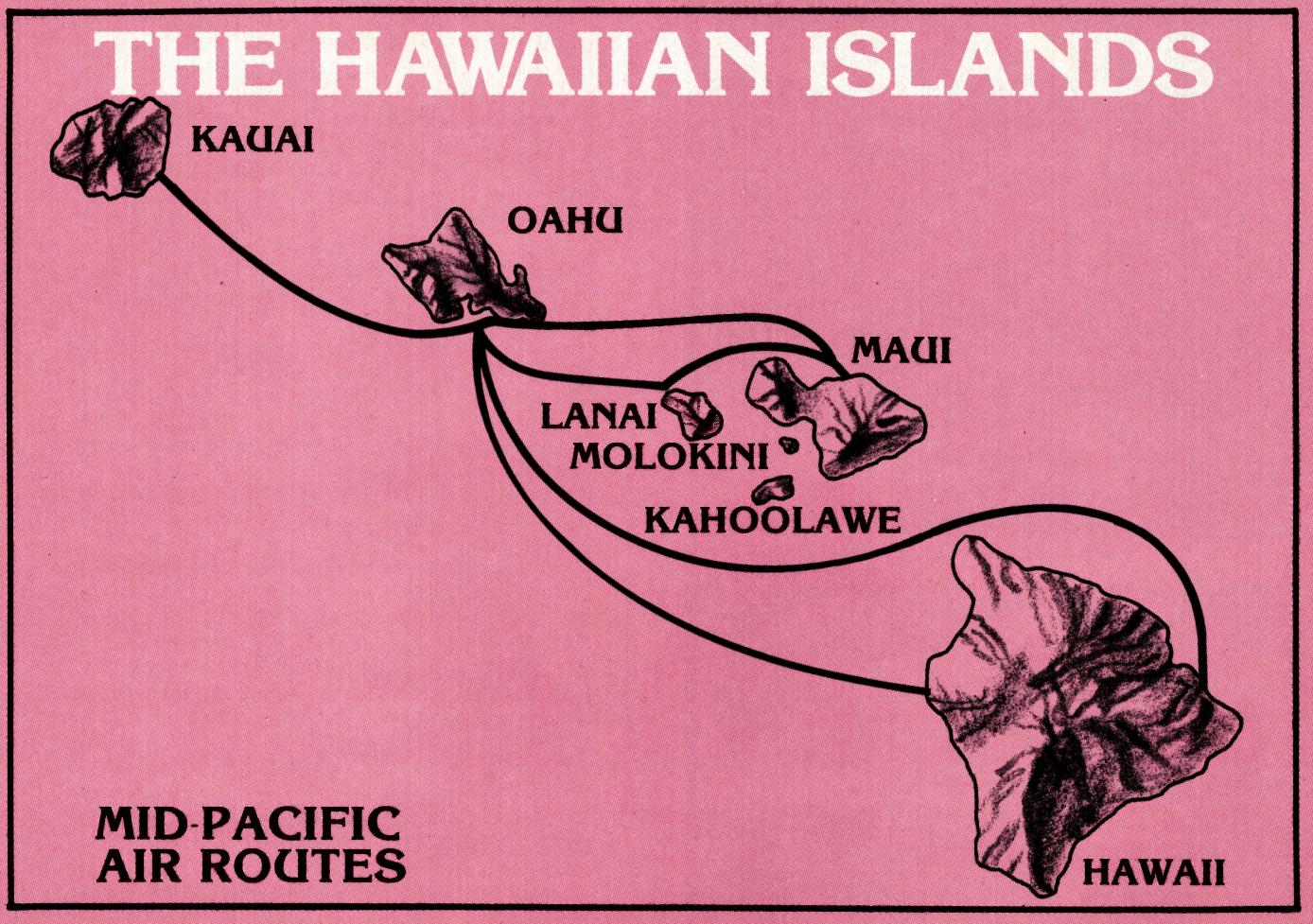
Begin your Hawaiian diving by going with a certified dive operation and their qualified, experienced divemasters. They will take you to the sites appropriate to your skill level. While all operators will keep an eye on their divers, most vary the amount of supervision with their needs and abilities.

While we couldn't personally dive with every operator on each island, we have interviewed 27 and dived with 14 in the past two years. All operators referred to in the text as full-service sell dive equipment, beach wear and sundries; rent equipment; offer instruction from introductory to full certification; and provide guided scuba tours and repairs. The exceptions are those operators who specialize in snorkel and dive charters rather than retail sales or equipment rentals.

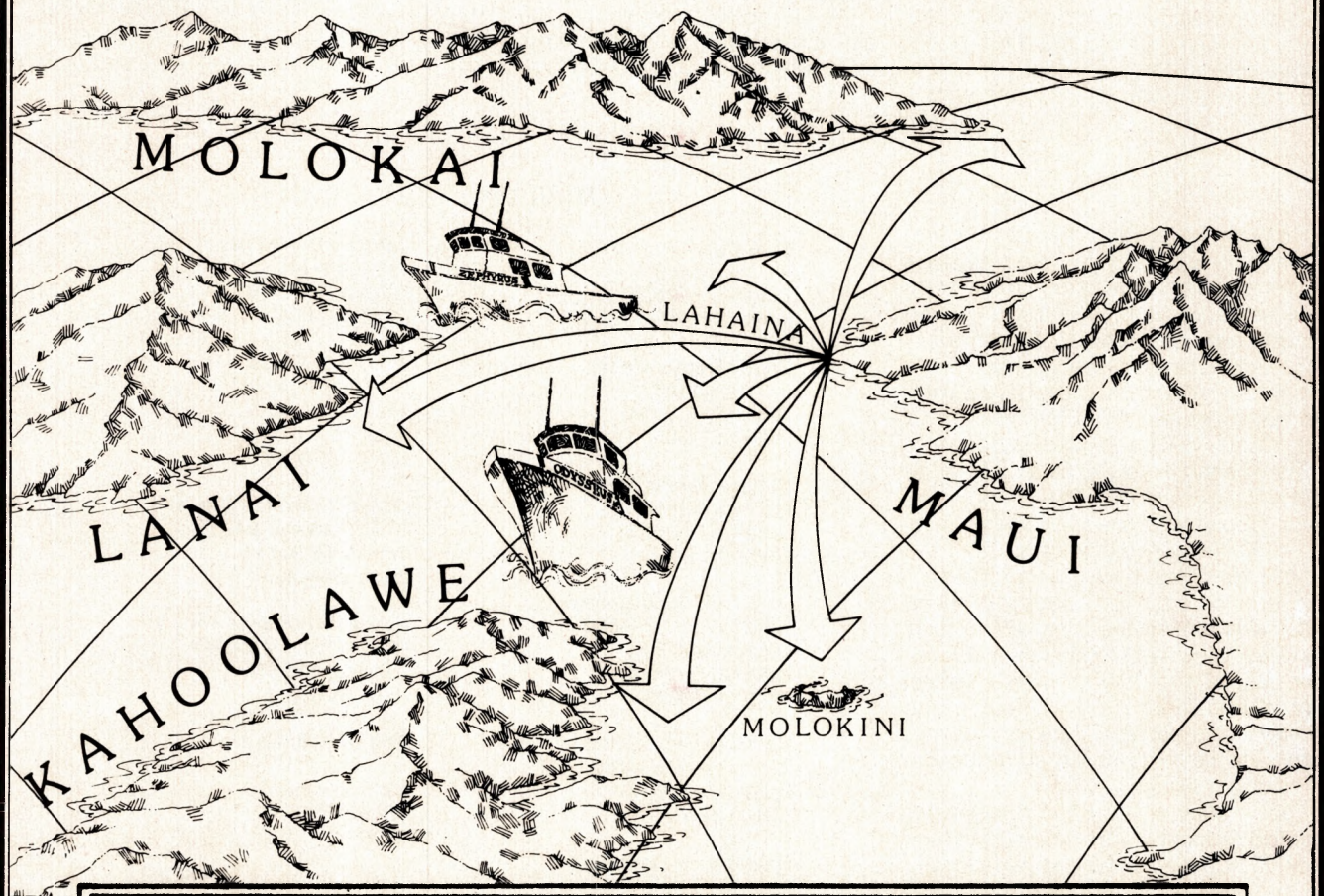
While some operations specialize in snorkelers and beginners, others prefer experienced divers. Some provide exclusive trips to find specific marine life or for U/W photography. U/W photo services are becoming more popular. A divemaster/photographer shoots pictures of you underwater and presents you with color prints, slides, unprocessed film or a video cassette, depending on your desires and his equipment. Tanks, weights and backpacks are usually part of the package, but expect an extra charge for other gear. Be prepared to show your certification card.

DESTINATION HAWAII

Destination Hawaii is an association of dive/snorkel businesses and two equipment manufacturers/distributers in Hawaii. Their purpose is to promote Hawaii as a major diving and snorkeling destination for mainland and Canadian travelers. In addition to promoting Hawaiian diving, Destination Hawaii is working to maintain the quality of diving services and safe diving practices in the state of Hawaii. Membership indicates that the dive oper-



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MAUI, 1985

Central Pacific Divers also announces their new dive packages for 1985. With a wide range of accommodations, superb diving aboard *Odysseus* and *Zephyrus*, and the unique vacation paradise of Maui, these packages are priced to fit any diver's budget! **1985 IS THE YEAR TO DIVE MAUI!** CALL NOW TO DISCUSS YOUR HAWAII DIVE VACATION: (808) 661-8718

CENTRAL PACIFIC DIVERS

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ator is interested in providing diving services for travelers.

THE BOATS

The larger boats usually take six or more divers. On longer trips you can relax in a spacious, sheltered cabin, enjoy snacks and use a full sized marine head. In other words, the larger the boat the greater the comfort. The smaller boats usually take six divers or less. Thus, it's easier for you to form a group for an exclusive charter for a six diver boat and you may have fewer divers in the water.

MAUI

Soaring up toward the 10,000 foot summit of Haleakala, you pass by huge cinder cones that appear to be from another planet. The music in your stereo headset has been carefully chosen to enhance the dramatic scenes that unfold before your eyes. As you look out from the helicopter, you know why Hawaiians say, "Maui no ka oi"—Maui is best.

Maui began its existence as two separate volcanic islands. The Maui Mountains, topped with the 5,788 foot summit of Puu Kukui, were formed first. Then, the 10,023 foot volcano Haleakala appeared. The erosion from the slopes of these mountains formed the isthmus that joins the Maui Mountains and Haleakala. Today, Maui's two largest towns, Kahului and Wailuku are on this isthmus of the "valley island" of Maui. Most of the other towns are near the coast, at the bottom of mountain slopes.

Today, Maui is not only a popular diving destination, but also offers a wide variety of activities including guided tours by air, bus, limousine, horseback, boat and hiking on marked trails. Charter boats are available for fishing, sailing and snorkeling in addition to scuba diving. Ten golf courses and a large number of tennis courts beckon and hunting is available. If you want a real thrill, coast 38 miles down the winding slope of Haleakala on a bicycle. It's almost like skiing!

Lahaina, a historic waterfront town with architecture that reflects its brief history as a whaling center, is about a 45 minute drive from the airport. Several dive operators base their boats at the marina at Lahaina and have their shops nearby. Overnight color slide processing service, by Kodak for both Ektachromes and Kodachromes, as well as one hour color print processing, is available at the Nagamine Camera and Photo Shop. Nagamine's underwater photo specialist is a PADI instructor and knows divers' needs. Nagamine carries a large inventory of U/W cameras and strobes for sale and rental, and does authorized warranty repairs for both Ikelite and Oceanic.

ACCOMMODATIONS

Because most of Maui's dive operators are on the leeward coast, from Kapalua Bay down to Kihei, with the majority in Lahaina, consider choosing an accommodation in this area. The variety is tremendous. You can enjoy the amenities of a lush high-rise hotel in Kaanapali, the rustic charm of the Pioneer Inn by the Lahaina waterfront or the convenience of a kitchen at the Maui Islander, two blocks inland from Front Street.

We stayed at the Maui Surf, at Kaanapali, a few miles north of Lahaina. It has three dining and lounge/nightclub facilities that offer dining and a variety of entertainment, a surfside coffee shop and an outside grill for lunch. We enjoyed the typical Hawaiian special touch, such as finding orchids on our pillows in the evening. Maui Surf has a beach, pool, three tennis courts and two golf courses across the street.

MAUI'S DIVE OPERATORS

CAPT. NEMO'S OCEAN EMPORIUM, a full service store just off Front Street, La-

MAUI DIVE OPERATORS

Blue Chip Charters
P.O. Box 5159
Lahaina, HI 96761
(808) 667-7474, ext. 3104

Capt. Nemo's Ocean Emporium †
P.O. Box 11267
Lahaina, HI 96761
(808) 661-0429

Central Pacific Divers †
780 Front Street
Lahaina, HI 96761
(808) 661-8718

Dive Maui Incorporated †
Lahaina Market Place
Lahainaluna Rd.
Lahaina, HI 96761
(808) 667-2080

Hawaiian Reef Divers
129 Lahainaluna Rd.
Lahaina, HI 96761
(808) 667-7647

Hawaiian Watercolors †
P.O. Box 616
Kihei, HI 96753
(808) 879-3584

Lahaina Divers Inc. †
710 Front St.
Lahaina, HI 96761
(808) 661-4505

Maui Dive Shop
P.O. Box 1018
Azeka Place
Kihei, HI 96753
(808) 879-3388

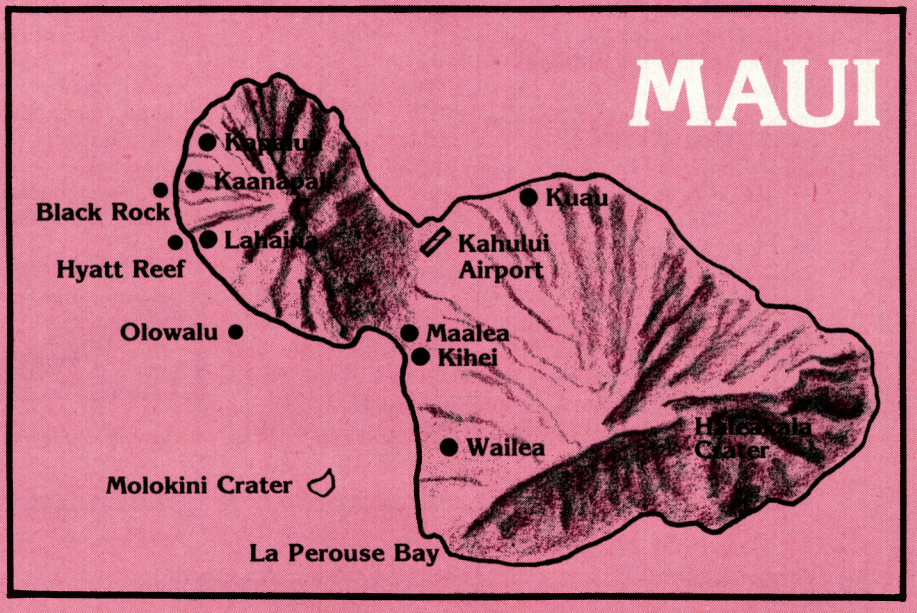
Ocean Activities Center †
3750 Wailea Alanui D-2
Wailea, HI 96753
(808) 879-4485

Scuba Schools of Maui †
1000 Limahana Pl. #A
Lahaina, HI 96761
(808) 661-8036

The Dive Shop †
P.O. Box 917
1975 S. Kihei Rd.
Kihei, HI 96753
(808) 879-5172

U/W Adventures of Maui †
P.O. Box 11244
Lahaina, HI 96761
(808) 661-8957

†—Member, Destination Hawaii



haina, is owned by Capt. Michael Tansey, a PADI master instructor. Nemo's offers several distinct diving programs: Their 58 foot catamaran, *Sea Smoke*, sails from Kaanapali Beach to Lanai, Molokini or West Maui sites. Guests enjoy snorkeling, introductory diving with instruction and diving for certified divers on the same trip. Breakfast pastries and a hearty picnic lunch—fried chicken, cold cuts, salad, egg rolls and more—are included. The *Capt. Nemo*, a fast 27 foot custom dive boat with a canopy cover, can take six divers to a variety of sites. Equipment and refreshments are provided.

Other Capt. Nemo activities include classes from beginning certification to instructor and an underwater video taping service with editing and music. Capt Nemo is also a booking agent for cycling, parasailing, surfing, fishing and other Maui activities. At this writing, they are working on a hotel/car/air fare package. Write for details.

CENTRAL PACIFIC DIVERS is Maui's oldest dive operation. This full service shop on Front Street is owned by Jane and Pete Cambouris and Kathy and John Kelly. It specializes in boat trips for experienced divers to Kahoolawe, Lanai, Molokai, Molokini and Maui. In addition to the normal two tank boat trip, Central Pacific offers a three tank trip for serious divers and U/W photographers. Breakfast snacks include coffee, pastry, juice and fruit. Lunch on the three tank trip includes sandwiches, vegetable sticks, chips, dessert and beverage. Beer is available after the last dive.

The 43 foot *Odysseus* and 45 foot *Zephyrus* carry up to 14 divers each. Both boats have a large enclosed cabin, full sized functioning head, ample open deck space for scuba gear, a freshwater hose and large barrel for rinsing after the last dive. You can sit on padded seats at a small table inside the cabin, on shaded seats in open air or lounge on the forward or aft deck. Crew members offer both still and video underwater photo services. You can choose between guided or non-guided dives.

Central Pacific Divers offers closely supervised introductory dives for up to six students and a five day certification course, running from Tuesday to Saturday each week, with eight beach and two boat dives. Final open water training is available. Contact the shop in advance and be sure to bring your referral slip.

DIVE MAUI INC., a full service shop off Front Street, owned by Leslie Sternberg, has three dive boats. The 20 foot *Ulani* is used for short, local trips. The 30 foot *Dive Maui*, with a canopy cover, goes to Lanai. The 23 foot Bimini, *Sundance*, goes to Molokini from Maalaea Harbor rather than from Lahaina, shortening the boat trip. The three small boats allow Dive Maui to specialize in small, personalized tours especially for new divers. Instruction is available from introductory to

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Dive with Small Groups From the Fastest, Best Boats. All Equipment, except wetsuits, included. Unlimited Snacks and Beverages on any Trip.

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Capt. Nemo's Dive Crazy Crew staff a Full Service Dive Store—complete inventory—Underwater cameras and strobes—Full Rentals and Sales. Complete your Open Water Certification or advance to any Level, including Instructor, with Capt. Mike Tansey, Maui's Master Instructor.

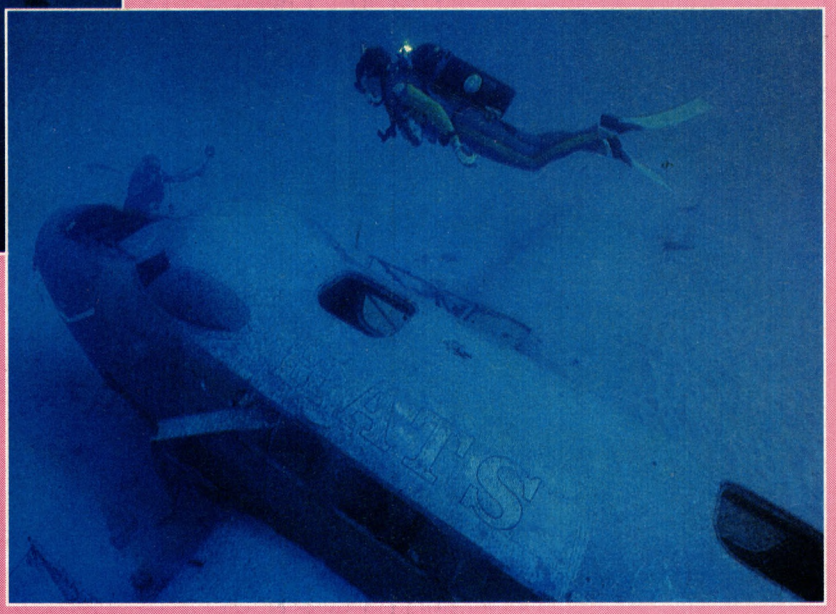
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photo/John Steel

The Hawaiian Islands are a paradise for snorkelers as well as scuba divers. Clear, warm water, brilliantly colored tropical fish, lava formations, invertebrates and wrecks abound. Above: Kealakekua Bay, Hawaii. Below: The Airplane Wreck, Oahu. Below left: Aloha Airlines connects the major airports on the islands.





PADI assistant instructor and NAUI and SSI to divemaster.

HAWAIIAN WATERCOLORS, a specialized charter service, is owned by Ed Robinson. Ed uses a 21 foot Boston Whaler to take up to five divers on personalized dives to see particular undersea creatures. As an excellent U/W still and video photographer, he can provide photo services and coaching. Based in Kihei, Ed dives South Maui and Molokini.

LAHAINA DIVERS is a full service shop on Front Street. Owned by Blain Roberts and managed by Marvin Wolpa, it offers daily half day boat trips. The new 43 foot *Reliant* carries 3 to 16 divers at speeds up to 20 knots. It has a large cabin area with gear storage beneath padded benches, an eight foot wide door at the stern for easy entry and exit and a freshwater shower. The 31 foot *Nomad* takes 2 to 12 divers and the 24 foot *Argonaut* takes two to six divers.

This PADI five star training facility offers introductory and refresher dives, four day open water certification courses every Tuesday through Friday and all the PADI speciality courses. Lahaina Divers also has an U/W photo service. They photograph guests underwater and give them the unprocessed film.

Lahaina Divers has packages with five hotels, all with kitchens, including the nearby Maui Islander. The packages include air fare (United Airlines), rental car and diving. Upgrading and variations are available. Write for details.

OCEAN ACTIVITIES CENTER is a charter boat and activities booking service managed by Jim Housh. It has three boats working out of Maalea Harbor: The 65 foot catamaran, *Wailea Kai*, takes large groups on one tank scuba and family snorkeling trips to Molokini. The 37 foot Tollycraft, *No Ka Oi IV*, carries three to ten divers. Lunches served on long trips include sandwiches, vegetable sticks with dip, fruit and beverage. The 22 foot *Islander* takes three to six divers.

Ocean Activities is a booking agent for a wide variety of activities such as horseback riding, sunset sails and sportfishing. They book from the Wailea Shopping Village and Maalea Harbor. There is also a retail shop and booking location on Front Street, Lahaina.

SCUBA SCHOOLS OF MAUI, owned by John McCarthy, is a full service shop several blocks north of Front Street. He specializes in personalized service for

small groups, using 21 and 24 foot Radons. Instruction ranges from introductory to four day certification courses in the newly remodeled classroom. There are free pool lessons at the Kaanapali Shores Hotel and Sands of Kahana.

THE DIVE SHOP, managed by Marilyn and John Phipps and owned by the Phipps and Linda Kowalski, is a full service shop near Kihei. Because they are closer to Molokini Crater than the other Maui shops discussed, their boat trip there is shorter. Using a 25 foot Boston Whaler with a canopy, they take up to six divers on four hour trips. Their 37 foot trimaran takes up to six snorkelers or divers on a leisurely sail to Molokini. They also operate Maui Activities Unlimited, which can make reservations for various Maui activities.

U/W ADVENTURES OF MAUI is owned by Susan Fletcher and operates out of the Kaanapali Beach Hotel and the Royal Lahaina. They rent scuba and snorkel equipment at the beach shack, 100 feet from shore. Free introductory pool lessons are offered several times a day and afternoon guided scuba dives offshore are offered twice a day. PADI certification instruction is also available.

MAUI'S DIVING

In addition to the excellent dive sites just off Maui's shores, the nearby islands of Kahoolawe, Lanai, Molokai and Molokini also provide many excellent sites for

MAUI RESTAURANT GUIDE

El Crab Catcher
Seafood
Whaler's Village
661-4423

Kahana Keys
Salad bar/Amer. cuisine
Kahana Keyes Resort
669-8071

Kapalua Grill & Bar
Continental cuisine
Kapalua
669-5653

Kimo's
American cuisine
Lahaina
661-4811

La Perouse
Inter-Cont. cuisine
Wailea
879-1922

Leilani's
American cuisine
Whaler's Village
661-4495

Longhi's
Italian cuisine
Lahaina
667-2288

Mama's Fish House
Seafood
Kuau Cove
579-9672

Raffels'
Continental cuisine
Westin Wailea
879-4900

Swan Court
Continental cuisine
Hyatt Regency
667-7474



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Lahaina, Maui, Hawaii 96761
(808) 667-6255

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To Lanai or Molokini aboard the fastest, most comfortable 43′ custom dive boat in Hawaii.

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One or two week. Includes AIRFARE by UA, West Maui condo, rental car, all diving. Starting at $875.00 (Per person/dbl. occupancy)

Call or Write
LAHAINA DIVERS, INC.
710 Front St., Lahaina, HI 96761
808/667-7497

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the Maui operators. Because some boat trips can be long, bring a wetsuit and a light jacket to keep warm. Because the trade winds increase in the afternoons, Maui dive trips usually leave as early as 7:00 am. Although most hotel restaurants don't open early enough for your breakfast, there is an expresso coffee and pastry shop near the harbor and morning coffee and pastries are usually served aboard the boats.

Black Rock, at Kekaa Point in front of the Sheraton Hotel, is a popular night dive from shore. Depending on the direction of the current, you enter either by the canal wall to the north or the beach to the south. Work you way along the wall, next to the shoreline, and look for parrotfish, zebra morays, slipper lobsters, Spanish dancers and the numerous invertebrates that make Hawaiian diving special.

Hyatt Reef, just off the Hyatt Hotel, can be either a beach or boat dive. It is a large reef of live coral that is home for lemon butterflyfish, bird and saddle wrasses, turtles and an occasional manta ray. This is an easy 20 to 40 foot dive.

La Perouse Bay (Ahihi Bay) is a Marine Preserve that features lava caves and pinnacles with depths ranging from 30 to 60 feet. Currents aren't a problem in this protected bay. There are plenty of reef fishes, live coral, urchins and octopus. In the winter, you may get a rare U/W glimpse of a whale.

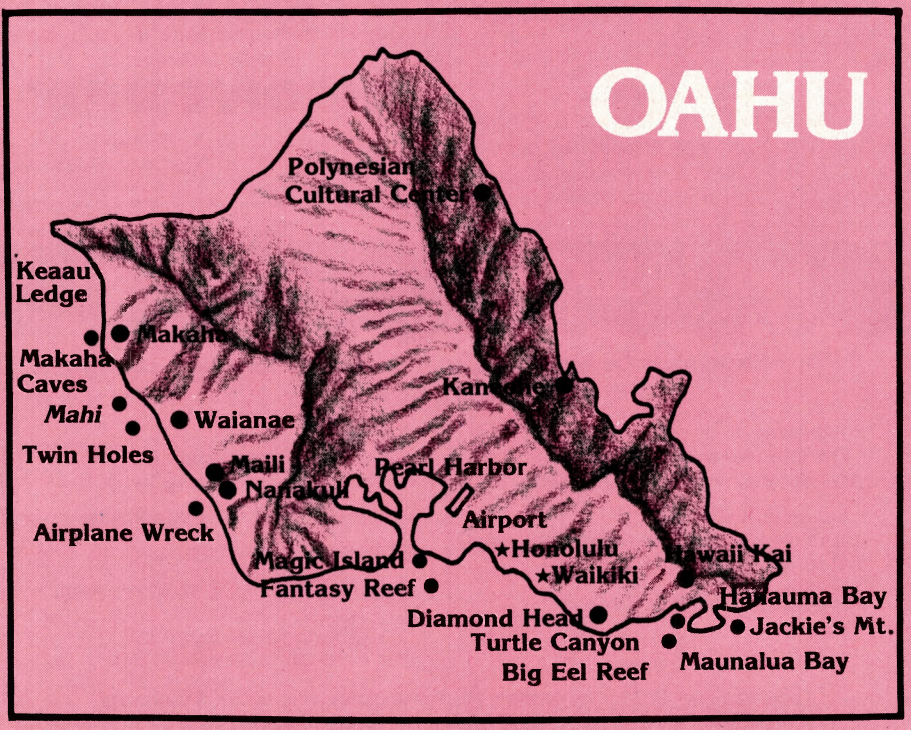
Menpachi Cave is a narrow lava tube loaded with Hawaiian, slipper and spiny lobsters as well as hordes of menpachi (squirrelfish) after which the cave was named. Several archways and pinnacles, where you can find octopus and anglerfish, surround the cave.

Sgt. Major Reef consists of three parallel ridges, a cave and an archway. It has beautiful coral formations and several large schools of sergeant majors.

Molokini Crater is a crescent-shaped island formed by the top of a dormant volcano. About three miles from Maui's west coast, the crater is a marine preserve. The outside is an almost sheer vertical wall with visibility up to 200 feet. Keep your eyes open for pelagics, large mantas and occasional sharks or whales out in the open blue. Currents can make the wall a spectacular drift dive.

Inside the half mile wide crater, with depths ranging from 10 to 100 feet, you will find many dives sites. Two large, friendly eels—Garbonzo and Freebee—expect to be fed in exchange for posing for your U/W pictures. Dropping down to 65 feet, you will find sleeping whitetips in small caves. For your second dive, you can feed lemon butterflyfish, large jacks and surgeonfish at 20 feet and watch schools of false Moorish idols drift by.

Olowalu is a large shallow patch area, five to 30 feet deep, loaded with fish, octopus, turtles and live coral. It is an excellent reef for snorkelers and beginning scuba divers. Olowalu is an easy shore dive as the rocky beach is next to the Honoapi Ilani Highway.





OAHU

Rapid staccato sounds caught our attention as we approached the village. We quickened our pace and moved in closer. The Samoan Slap Dance had just begun.

Samoa was only the first of the seven

island cultures—Fiji, Hawaii, the Marquesas, New Zealand (Maori), Samoa, Tahiti and Tonga—we would see this day. Each was represented by a village, complete with the songs, dance and music of the people. The settings, costumes and canoes were all authentically re-created at the Polynesian Cultural Center, a living museum of South Pacific cultures, just an hour's drive from Waikiki.

ACCOMMODATIONS

Oahu's accommodations range from luxury rooms overlooking Waikiki Beach to the smaller hotels and less crowded beaches near Waianae. We stayed at the New Otani Kaimana Beach Hotel, near Diamond Head. On an excellent swimming beach, the hotel is bordered on two sides by the green lawns and swaying coconut palms of Waikiki's Queen Kapiolani Park. We dined at the hotel's beachfront Hau Tree Lanai Restaurant, under Waikiki's oldest hau trees. The beautiful sunset added a perfect touch to a delicious meal.

OAHU'S DIVE OPERATORS

All dive stores discussed below are professional, full service operations.

ALOHA DIVE SHOP, owned by Jackie James, is at the Koko Marina Shopping Center, a short drive from the bustle of Waikiki either in your rental car or Aloha's van. Once you park free in the lot, everything you need is within easy walking distance. Aloha's 30 foot custom dive boat is docked at the marina, only 150 feet behind the newly expanded shop.

Jackie has daily four and one-half hour boat trips to dive sites such as Maunalua and Hanauma Bays. Departure times are 8:00 am and 1:00 pm, for groups of three to nine divers. Thus, you have a half day free for other activities. At this writing, Jackie is acquiring another boat, an elegant 30 foot Uniflite, *Salty Dog*, that will do 22 knots. In addition to regular instruction, introductory and certification courses, Aloha teaches handicapped persons to dive. The shop's attitude is that diving should be fun for everyone: Jackie's enthusiasm makes this obvious.

LEEWARD DIVE SHOP is in Waianae, about an hour's drive from Waikiki. Away from the tourist district, Leeward Dive Shop doesn't have fancy trimmings. Your first view is a wall of tanks, so you know owner Pete Basabe means business. He has three boats. Each can take up to six snorkelers, introductory or certified divers, to more than 50 sites he has explored while living on this coast.

OCEAN ADVENTURES, INC. (formerly Sea Urchin Scuba Shops), owned by Brad Revis and managed by Bill Carey, is on Kam Highway in Pearl City. Brad is a PADI ITC director and offers instruction from introductory to instructor. Brad has an instructor course package with the Plaza Hotel, near the Honolulu airport. It

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Cont./Haw. cuisine
New Otani Hotel
923-1555

Odoriko
Japanese cuisine
King's Village
923-7368

Oceanarium
Seafood
Pac. Beach Hotel
922-1233

Spats
Pasta
Hyatt Regency
922-9292

The Third Floor
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Haw. Regent Hotel
922-6611

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Bojac Aquatics Center
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Waipahu, HI 96797-3193
(808) 671-0311

Dan's Dive Shop, Inc.
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Honolulu, HI 96814
(808) 536-6181

Down Under Divers
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Waipahu, HI 96797
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Hawaiian Divers
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Honolulu, HI 96819
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Hawaiian Sea Adventures
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Aiea, HI 96701
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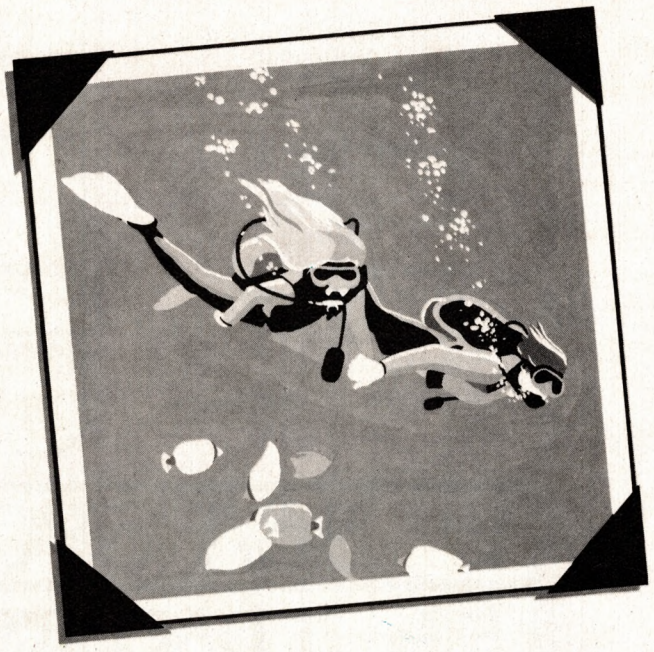
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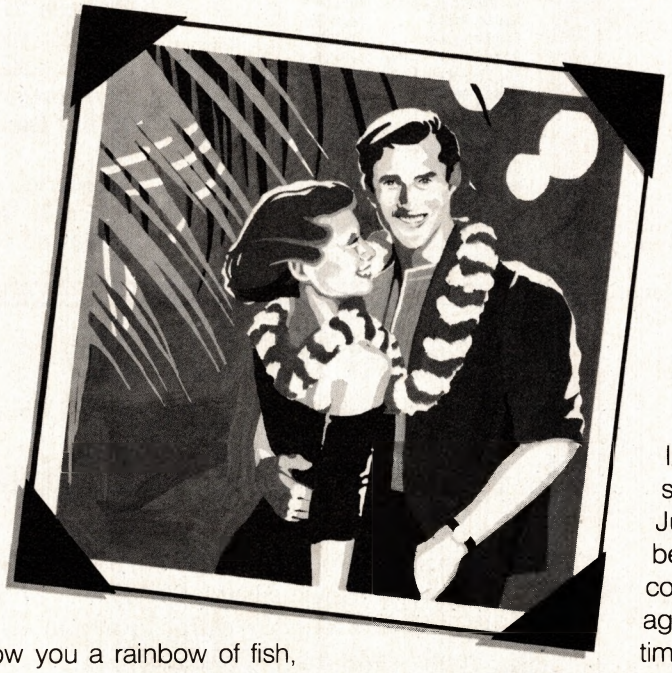
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Brad takes three to six divers on a 16 foot Zodiac to sites off the Waianae coast. Diver pick-up is available at nearby hotels. At this writing, Ocean Adventures is planning to add diver propulsion units to the shop's services.

PACIFIC QUEST DIVERS, owned by Zane Bilgrav and Richard Whittington, is in Kaneohe. Their 25 foot, canopied Radon, *Argonaut II*, takes two to eight divers. Because they trailer their boat, they can launch at Waianae and several other locations around the island. This gives them a large selection of sites. During the summers, for example, they dive the north shore.

Pacific Quest has a hotel package with the Turtle Bay Hilton (formerly the Kui Lima Hyatt) and a special Oahu/Maui package with Lahaina Divers. As Pacific Quest, Inc., they package outdoor adventure trips, such as hiking, camping and sailing in the Hawaiian Islands.

SOUTH SEAS AQUATICS is the oldest dive shop on Oahu. On Ala Moana Boulevard, it is well stocked and has the largest boat on Oahu. Owner Ken Taylor's 38 foot Delta, *South Seas II*, is a Coast Guard certified vessel approved for 26, but Ken limits trips to 18 divers unless a special group charter requests more. *South Seas II* has a freshwater shower, flush head, two boarding ladders and a 12 foot swim step for easy entry and exit. Snacks and beverages are included on the trip.

South Seas Aquatics has packages with five hotels including Maili Cove Condominiums. Groups should write for details about Ken's room/dive/land transportation package. Group packages are commissionable to the organizer.

For individual or family outings, South Seas Aquatics has leased Beach Comber Island. They can take you there on a catamaran with lunch and snorkeling or beginning scuba lesson.

STEVE'S DIVING ADVENTURES is on Ala Moana Blvd. in Waikiki. Owned by Steve Holmes and managed by Pogi Holmes, Steve's takes two to six divers each on its 17 and 28 foot boats. These are at Waikiki, so trips to nearby sites are short. Guided shore dives are available to Magic Island, Lanai Look Out and Hanauma Bay. There is a full sized bus to take snorklers to Hanauma Bay.

OAHU'S DIVE SITES

During most of the year, diving is best on the leeward (south) side of the island, from Kaena Point down to Hanauma Bay. And, when occasional storms or swells hit the south shore, the seas at the north shore flatten out and allow access to this rugged area.

Airplane Wreck is an intact 14 passenger DeHaviland that was deliberately sunk off Nanakuli by Ken Taylor of South Sea Aquatics to form an interesting dive site. Recently, Ken moved this twin engine aircraft closer to a reef to add variety to the site.

Big Eel Reef is a long reef, 50 to 60 feet deep, in Maunalua Bay. It is loaded with fish and large eels including a six foot snowflake moray.

Hanauma Bay is a marine preserve at the southeast point of Oahu. It is one of the most beautiful and popular beaches in the islands. The walk down to the beach is steep, but there is a shuttle service. A shallow, barrier reef protects the beach and swimmers from heavy seas. When the tide is high, beautiful parrotfish swarm in to feed on the algae.

Jackie's Mountain is a pinnacle with ledges at 50, 85 and 110 feet. The main pinnacle rises to within a few feet of the surface and is pierced with tunnels and surrounded with fish. From below, the site looks like a miniature mountain range with peaks surrounded by foamy clouds. Outside of protective Hanauma Bay, Jackie's Mountain is best dived on calm days.

Turtle Canyon is a special dive in Maunalua Bay. It has a series of canyons, 30 to 40 feet deep, where you can see turtles free swimming and resting under ledges. In late afternoon, when the turtles return from their feeding areas, it looks

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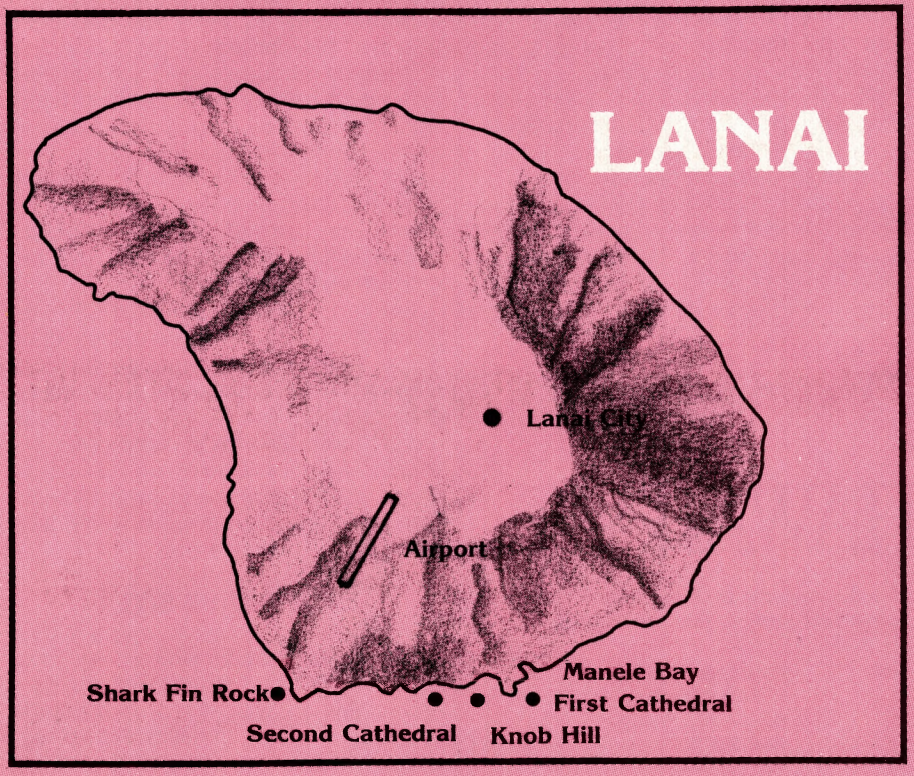
Magic Island (also called Rainbow Reef) is in front of Waikiki. This shallow site accessible from shore or boat, is an easy spot for introductory dives. The main attractions are the many different species of fish—including surgeons, butterflies, triggers, spotted green puffers, bird and saddle wrasses—that can be hand fed.

The ***Mahi*** is a 165 foot minesweeper deliberately sunk by Ken Taylor of South Sea Aquatics and several other dive operators to form a dive site. Resting upright in 90 feet of water south of Waianae, this intact ship is an exciting dive for exploration or U/W photography.

Makaha Caves is a huge dive site in 10 to 30 feet of water. The entire area is honeycombed with lava tube caves, grottos, archways and ledges. Because of occasional heavy seas, this site doesn't have much fragile sea life.

Twin Holes consists of two vertical lava tubes at the center of a V-shaped wall. The wall and tubes drop from 40 to 90 feet. You can enter the tubes at their tops or from openings at their bottoms.

Keiau Ledge drops from 30 to 70 feet. In one cavern, sunlight streams through more than six different openings to create a cathedral effect. Schools of squirrelfish hide in the shadows.



LANAI

They approached, then split, swimming around, over and under us. Cathy raised her Nikonos and 15 mm lens and panned one passing cluster after another. The lens was too wide for her playful subjects and they were just a few feet too far away. But later—as she examined the film, still wet from processing—she counted them. There were 47 dolphins in one picture alone. Although the photos lack the contrast needed for magazine reproduction, they are bright enough to remind us over and over of the joy of seeing hundreds of dolphins in the water off Lanai.

Lanai is a small island owned almost exclusively by the Dole company. It has over 15,000 acres of fields, with row after row of pineapple plants in perfect lines. The remaining 75,000 acres of the island are open space.

Lanai, a popular dive destination for Maui dive operators, will soon have (at this writing) its own dive operation. The ten room Lanai Hotel, operated by Ocean Activities Center and managed by Beth and Byrd Gleason, is now in business. It is in Lanai City, a company town 1,600 feet above sea level where the air is cool. The hotel, surrounded by tall Norfolk Pines, is reminiscent of a New England hunting lodge. Don't let the simple appearance of the dining room fool you—Beth's cooking is excellent.

Lanai is strictly rural and low-key.

LANAI DIVE OPERATORS

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There are no boutiques, lei stands or nightclubs. The only restaurant is at Hotel Lanai. You go to Lanai to read, hike, hunt, explore with a Jeep, play golf at the nine hole course, dive, sun on the beach or simply rest. Daily commuter flights are available from all islands except Kauai and Hotel Lanai can arrange for a rental car or jeep to meet you at the airport.

Hotel Lanai will offer diving from a 22 foot Islander based at Manele Harbor, about a half hour drive from the hotel. From this location, most dive sites will be less than 30 minutes away.

LANAI DIVE SITES

First Cathedral is beneath a wash rock by a reef of live coral festooned with red slate-pencil urchins. The cave floor reaches 50 feet. At one end the lattice work of lava rock forms several openings that remind you of a stained glass window as sunlight streams through.

Second Cathedral has a huge central cave with a large ceiling opening and five large side openings, one of which leads to a secondary cave with a ceiling opening and three side openings. The view from the central area gives you the feeling of being in a beautiful cathedral. Moorish idols and several species of butterflyfish swim through. Ghost shrimp hide in the darkest parts of the caverns. The depth to the sandy floor is about 50 to 60 feet.

Nob Hill is a series of U/W ridges and archways and features a slab of rock supported by several columns as if it were a table set on top of a pinnacle beneath the sea. The dark interior is lined with yellow cup corals. Follow your dive guide as there are many things to see.

Shark Fin Rock is a large rock that looks like a huge shark fin protruding above the surface. The dive starts in shallow water on a flat lava slab where you will be surrounded by tame lemon butterflyfish. The far side of the rock pinnacle forms a wall that drops to about 65 feet. Schools of Moorish idols swim along the wall. Get ready to photograph them quickly because they swim straight to the bottom as you approach, making it difficult to frame them against open water.

HAWAII

We had just put the steaks on the grill at the Hawaii Volcanoes National Park when the sky turned bright red. Cathy threw the steaks back into the cooler while Jim frantically loaded his Nikon. We rushed to the edge of Halemaumau crater and joined the crowd at the viewing area. Flash cubes blinked as molten lava hissed and bubbled and was thrown up 80 or 90 feet into the air.

In addition to volcano watching, the big island of Hawaii offers a wide variety of activities. KONA COAST ACTIVITIES at a gazebo in the Kona Inn Shopping Village, can make arrangements for you.

Because most dive operators are in Kailua-Kona, we stayed at the King Kamehameha Hotel. At Lailua Pier, the hotel is within walking distance of the three Kona shops we visited. Our hotel room had an excellent view, service was excellent, a shopping mall and three restaurants filled the first floor and we were within easy walking distance of the waterfront shops and restaurants.

The Kona Surf Resort is on the rugged lava shoreline of Keauhou Bay, near the Keauhou Bay snorkel and dive operators. The Kona Surf Resort has a pool, tennis, golf, three restaurants and four bars. Hula lessons, a nightly Polynesian show and other activities are held daily.

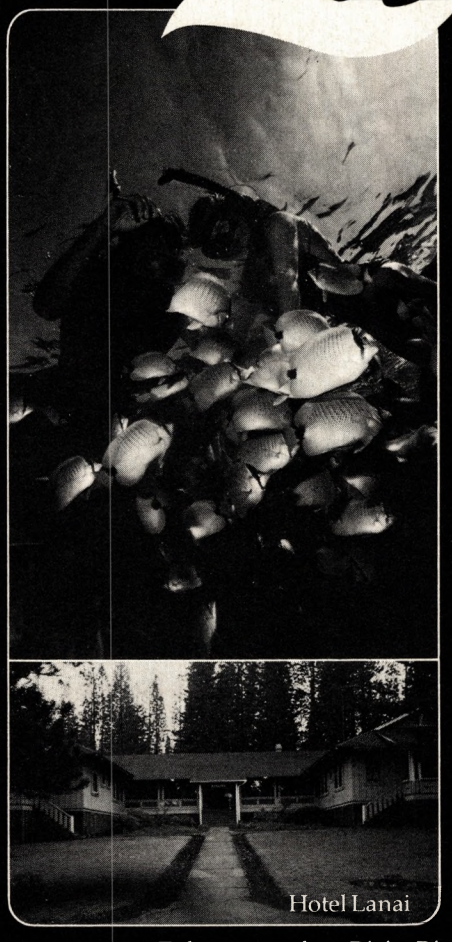
HAWAII'S DIVE OPERATORS

Fairwind, owned by Puhi and Mendy Dant, is a 50 foot trimaran based in Keauhou that takes up to 49 guests, including sightseers, snorkelers and up to four scuba divers, to Kealakekua Bay. *Fairwind* has a large interior with a glass bottom viewing area, padded seats, two heads, a bar and a grill for lunch.

GOLD COAST DIVERS, conveniently in the King Kamehameha Hotel Mall, is a full service shop owned by Sandy and Steve

MAUI COUNTY

Divine Diving



Ocean Activities Center, one of Maui's pioneers in all types of ocean activities, offers scuba and snorkel tours, charter fishing, beach activities, and whalewatching, too. From Maalaea Harbor on Maui, Ocean Activities Center operates daily scuba/snorkel cruises to Molokini, a volcanic pinnacle between Maui and Kahoolawe. Dive among the myriad of tropical reef fish and view spectacular dropoffs—here the water is deep blue and crystal clear. Maui County has many other great diving spots, too, including La Perouse Bay, the Island of Kahoolawe and the majestic "Cathedrals" on Lanai.

Good News!

Ocean Activities Center has just acquired the Hotel Lanai and is creating the first dedicated dive lodge in Hawaii. Nestled in a majestic stand of Norfolk Pines in Lanai City, the rustic Hotel Lanai features only ten double rooms. The Hotel Lanai lets you stay close to over thirty great diving spots.

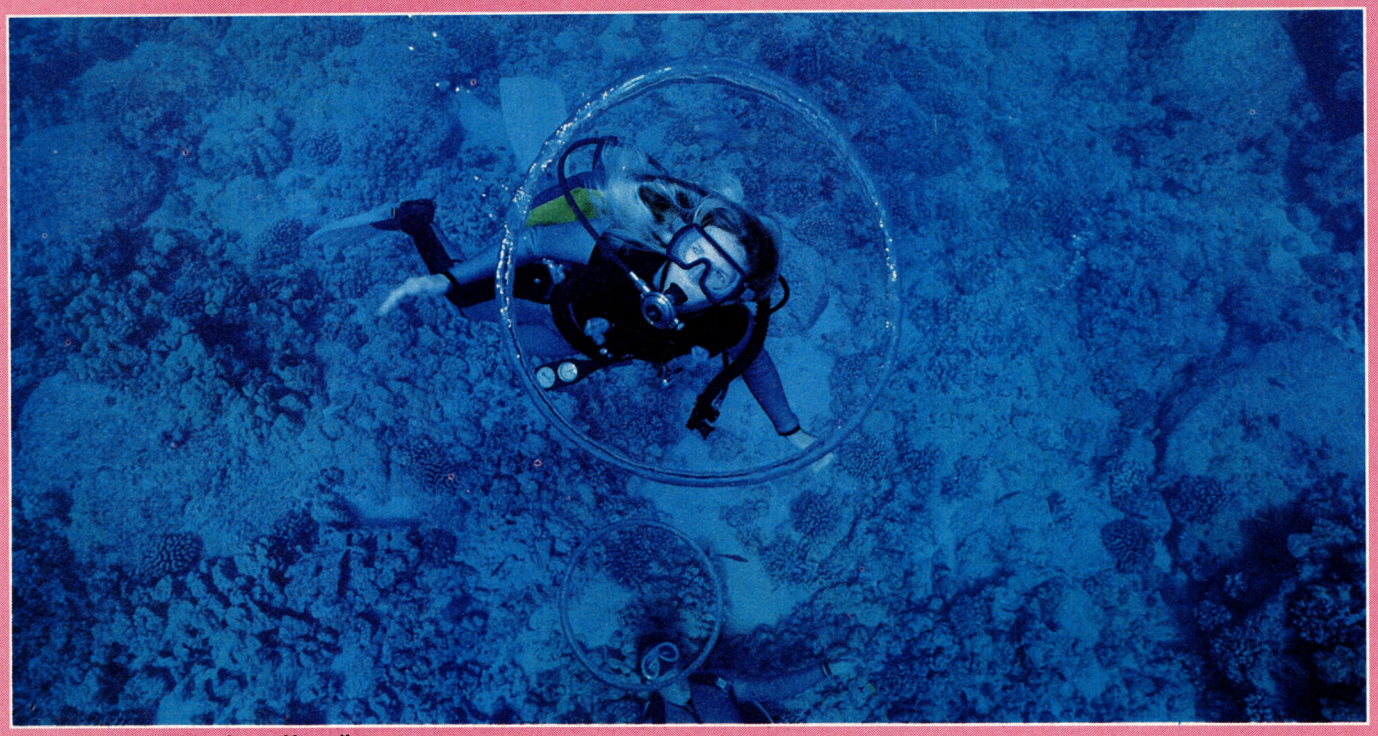


To learn more about Divine Diving in Maui County, please contact . . .

OCEAN ACTIVITIES CENTER

Wailea Shopping Village, 3750 Wailea Alanui D-2, Wailea, Hawaii 96753/(808) 879-4485.

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Divers blow bubble rings, Hawaii.



Second Cathedral, Lanai.



Moorish idols, Maui.



photo courtesy/United Airlines

United Airlines flies 747s to Hawaii.



Volcanic eruption, Hawaii.

Kaiser. Their three boats take up to six divers each for two tank, half day trips. The dive destinations depend on the desires of the group and the weather and have average depths of about 35 to 40 feet. Deeper diving is available for experienced divers. Gold Coast Divers also has an air station at Honokohau.

JACK'S DIVING LOCKER is in the picturesque Kona Inn Shopping Village, about a quarter mile from the King Kamehameha Hotel. Tina Clothier, the owner of this full service shop, specializes in personalized service and instruction for small groups and "non-scary" introductory shore dives at City of Refuge and other protected areas with short swims to the dive site.

Tina uses the *King Bee*, a 23 foot covered Mako dive boat owned by Teri and Jeff Leicher. They make daily, four hour, two tank trips. They can trailer their boat to minimize travel time and to increase the number of available dive sites.

KONA COAST SKINDIVER, LTD., operated by Julie and Jim Robinson, caters largely to experienced divers. Having opened his first Kona shop in the early '60s, Jim is the granddaddy of Kona Coast dive operators. The full service



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Kona Galley
Seafood
Alii Drive
329-3777

Kona Inn Restaurant
Continental cuisine
Kona Inn, Kailua
329-4455

Labourgogne
French cuisine
Kuakini Plaza
329-6711

Moby Dick
Seafood/Amer. cuisine
King Kam Hotel
329-2911

Sibu
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329-1112

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shop has ample parking and a drive-through air fill service.

Jim's 25 foot, canopied Radon has four glass viewing ports so two to six divers can see the bottom before entering the water. One tank dives take three hours or less and two tank dives four hours.

Kona Coast has a package with air fare on United Airlines, rooms at Kona Reef Condominium, rental car and diving. They also have multiple island packages, in conjunction with Lahaina Divers on Maui. Write for the latest details.

KONA EXPLORER is a 42 foot Monk Trawler with sleeping for six guests in three cabins. Owned by Jim Watt and booked by See & Sea, the *Kona Explorer* is set up for two to seven day live-aboard trips. No diving instruction is offered on the boat at this writing—they cater to experienced divers who want unlimited diving at special sites. Jim has an U/W video service. A housed Canon F-1 with speedfinder and Oceanic strobes are available for rental.

OCEAN SPORTS, owned by Mike Tansey, is at the Sheraton Waikaloa Hotel. It has a 25 foot glass bottom boat for snorkeling and looking and a 42 foot catamaran, *Me A'u*. The *Me A'u* is a fast boat that set a 30 knot record in ocean racing. It takes groups on snorkeling, diving and beach picnic trips.

SEA PARADISE, about 20 yards from the dock at Keauhou Bay, is owned and operated by Steve Mahaney and Robin Barrett. They have two boats. The 30 foot *Nautilus* has a covered foredeck and carries up to six divers. The 31 foot, covered Radon, *Sea Paradise*, takes 10 divers or up to 14 if requested by a special group. Daily trips usually leave at 8:30 am and about 1:30 pm and snacks and sodas are served onboard.

Because of their location, Sea Paradise can reach over 30 dive sites, none of which is more than 30 minutes away by boat. Although they do introductory dives, they don't offer certification courses. They specialize in diving for certified divers.

HAWAII DIVE OPERATORS

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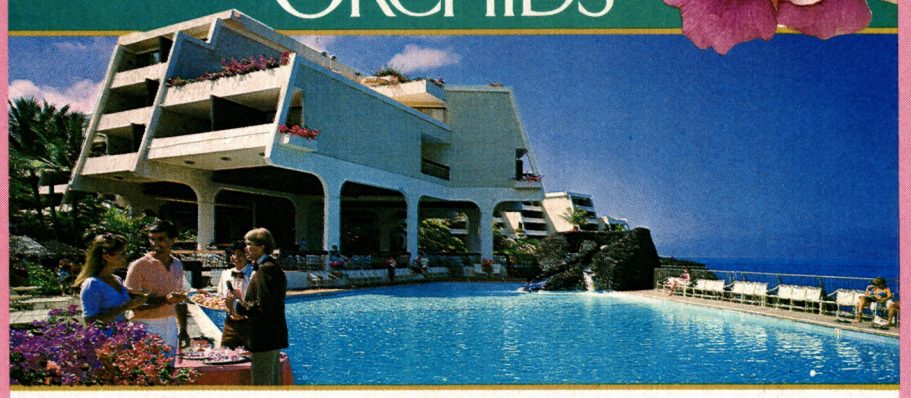
Jack's Diving Locker †
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Kailua-Kona, HI 96745
(808) 329-7585

Kona Coast Activities
P.O. Box 5397
Kailua-Kona, HI 96745
(808) 329-2971
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Arcadia, CA 91006
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HAWAII'S DIVE SITES

The big island of Hawaii is the youngest of the Hawaiian Islands. Rugged lava cliffs dominate much of the coastline and depths can plunge down to 100 feet or more within a few hundred feet of shore. Because there is less agricultural runoff and the steep drop-offs don't build up tall waves, the Kona Coast of Hawaii has lush coral growths.

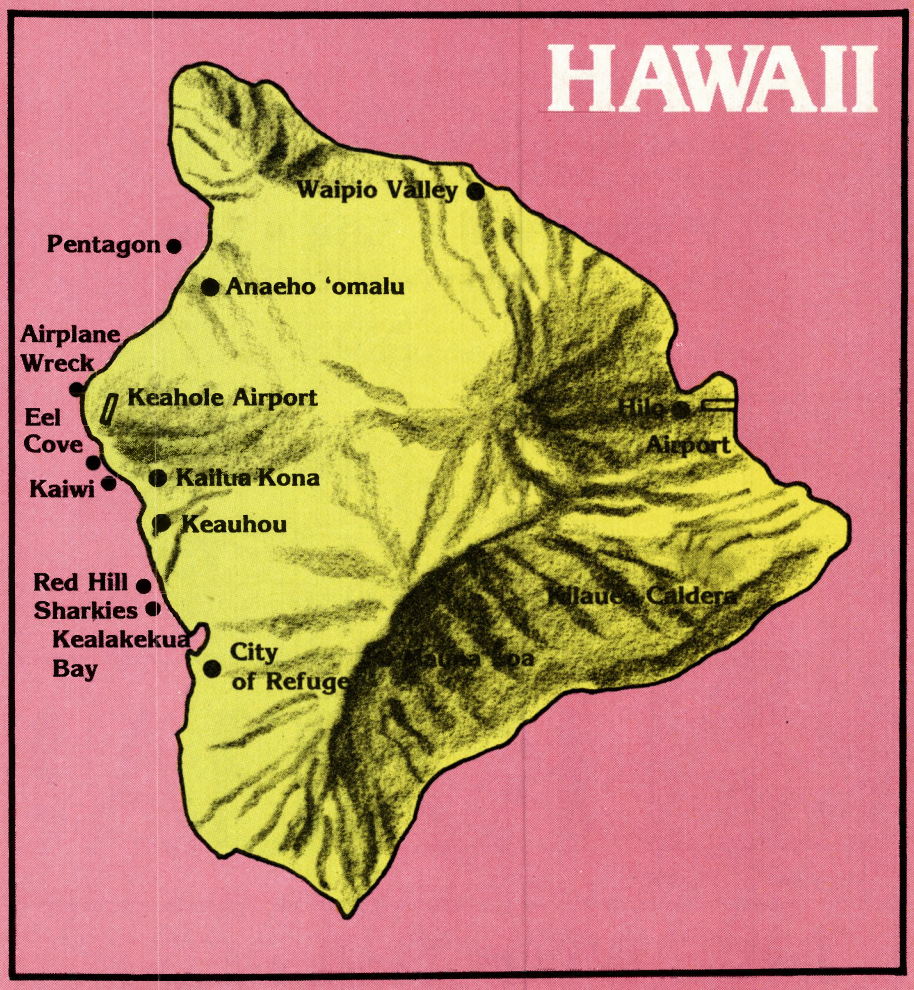
Eel Cove, just north of Kailua, has depths of 20 to 150 feet, but most divers dive to 40 feet or less.

Honaunau Bay, by the City of Refuge, is a relaxing shore dive for snorkelers or scuba divers. The dive starts right at the water's edge, about 50 feet from where you park. Depths range from about 10 to 100 feet, with plenty of action at 30 feet or less.

Kealakekua Bay is an U/W state park covering over a square mile of calm, protected bay. The reef slopes gently from shore to a drop-off 20 to 100 yards away. The big attraction, of course, is Orville—a large, friendly eel. Orville has trained local divemasters to drop tidbits of fish into his mouth.

Red Hill is a mile long site north of Kealakekua Bay with numberous lava tubes, archways, grottos and ledges that form many individual dive sites such as **Sharkie's Cove**. The cove has a 25 to 50 foot slope with small lava ridges and canyons and plenty of live coral. The fish aren't as tame here as inside the bay, but there are plenty of them.

Kaiwi Point, about two miles north of Kailua Bay, is a large site with huge boulders strewn along the gradual slope from shore from 20 to 130 feet. There is potential for seeing exciting subjects: Manta rays are frequent and watch for rare glimpses of whale sharks, pilot whales, dolphins and even a humpback whale. This huge area includes **Kona Cathedral**, a large room about 15 feet across with two side openings, four skylights and a pillar in the center.



Kona Explorer
c/o See & Sea Travel Service
680 Beach St., #340
San Francisco, CA 94109
(415) 771-0077

Nautilus Dive Center
382 Kamehameha Ave.
Hilo, HI 96720
(808) 935-6939

Ocean Sports
Sheraton Waikaloa Hotel
P.O. Box 3291
Kamuela, HI 96743
(808) 885-6064

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Makolea Point is the resting place for a twin engine aircraft that went down in 1983. In 100 feet of water, the aircraft is now home for an increasing number of fish, some of which are becoming tame.

KAUAI

We didn't realize how hungry we were until they opened the imu—a hot, rock cooking pit. The sight and aromas of the Kalua pig, taro, sweet potatoes and other foods blended together, tantalizing our senses. We were at the Sheraton Coconut Beach Hotel, enjoying a Hawaiian luau. In addition to a delicious meal, it included an entertaining Polynesian revue featuring Hawaiian music, singing and attractive hula dancers. It was an exciting introduction to Kauai.

The rural island of Kauai is dominated by the towering peaks of Waialeale, an ancient volcano with her summit surrounded by a sea of clouds. Kauai is lush with flowering vines, trees and shrubs. Kauai offers excellent hiking, camping, solitude, serenity and pretty beaches.

ACCOMMODATIONS

Choose a hotel between Poipu on the southern coast and Kapaa on the northeast coast, as the dive stores are between these points.

We stayed at the Kiahuna Plantation (near Poipu), which has both one bedroom/one bath and two bedroom/two bath units, with a maximum of three stories. Our room had a complete kitchen, including coffee pot with coffee and filters. And, in the sitting room, we found several novels and guide books. The grounds included magnificent gardens, a lagoon and foliage adjacent to a beautiful sandy beach. Golf, tennis and watersports are available, as well as a conference room for up to 50 persons. Dinner at the Plantation's Garden Restaurant was excellent.

KAUAI DIVE OPERATORS

The Kauai dive operators trailer and launch their boats at the ramp closest to the dive sites selected. This gives them flexibility and saves travel time. Unlike us, these operators launch their boats quickly! You can meet them at their full service shops or the boat ramp. Call ahead of time if you need transportation.

AQUATICS KAUAI, LTD. has a dive package with Sheraton Coconut Beach Hotel in Waipouli. The hotel is less than a quarter mile from the shop; a small shopping center with a large food store and McDonald's are less than a block away. Owner Pete Ricciardi can arrange for your room, rental car and a South Sea Helicopters tour.

Pete has been diving Kauai for nine years and knows the local sites well. His specialty is video taping his guests and

providing Beta or VHS copies. His 26 foot Radon takes three to eight divers to a variety of sites and he will soon have the 65 foot catamaran *Ono Mana* for snorkeling groups and divers.

Aquatics Kauai offers PADI basic (four days) and PADI open water (one additional day) certification, with a two day lead time and a maximum of five students. Advanced open water, assistant instructor and underwater photographic instruction are also available.

FATHOM FIVE PROFESSIONAL DIVERS, owned and managed by Casey Granda and Terry O'Halloran, is next to the Chevron station in Koloa. They offer NAUI, PADI and SSI instruction up to ITC and introductory dives to groups of four or less. Classes are conducted outdoors, near the dive sites.

Fathom Five's 24 foot Radon, the *Aukai*, makes daily four hour trips with four to six divers plus a captain and an instructor/divemaster. They depart from the shop at 8:45 am, Monday through Saturday and return by 1:00 pm. They will pick you up at any south shore hotel or condo. Dive packages for non-divers, students and certified divers include an Avis rental car and Poipu Condominium accommodations with kitchen, patio and pool. Snorkeling gear is provided for non-divers, NAUI or PADI courses for students and two dives a day for certified divers. Packages can be arranged for three days or longer.

KAUAI RESTAURANT GUIDE

Hanama'ulu Tea Room
Japanese cuisine
Hanama'ulu
245-2511

Kauai Gardens
Continental cuisine
Kapaa
822-1482

Koloa Broiler
Self Grill
Koloa
792-9122

Kountry Kitchen
Breakfast
Kapaa
822-3511

Plantation Gardens
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OCEAN ODYSSEY is on Kuhio Highway in Waipouli. Owner Terry Donnelly has been teaching introductory and certification courses for about five years and is expanding his business to satisfy the needs of his repeat customers and other experienced divers. His shore dives require an average swim of about 10 yards to reach the site and he uses two boats for two tank, four hour trips. The 21 foot Radon takes 3 to 6 divers and the 33 foot Luhr takes 3 to 12.

Terry and his staff give free snorkeling and scuba lessons at the Sheraton, Kauai Beach Boy Hotel, Kauai Surf and the Mokihana Condominiums of Kauai. A PADI master instructor, Terry gives basic and advanced PADI instruction as well as refresher courses. He does photo coaching and will photograph you on color print film, handing you the cassette of exposed film after the dive.

Ocean Odyssey has a condo/car/dive package with Kauai Beach Villas.

SEA SAGE DIVING CENTER, a NASDS school/store in Kapaa, specializes in instruction for beginning or advanced divers. They have snorkel/picnics for both beginning and experienced divers that include equipment, instruction and transportation. Their 21 foot Radon, *Bubbles Below* (which replaces an 18 foot Boston Whaler), can take three to six divers on daily, four hour boat trips. Shore diving is also available with a swim of about 30 yards or less.

Owner Nikolas Konstantinou has the same love of the sea as his mother, Dr. Eugenie Clark. Nik specializes in helping divers understand fish behavior. His divemaster/instructor, Howard Albers, helps divers understand shells and the marine environment. Both Nik and Howard can provide underwater photo service. Nik specializes in comedy photography.

Sea Sage has dive packages with Pono Kai Resort in Kapaa and Islander on the Beach in Wailua. The packages include a rental car and in some cases, interisland air fare. They also give free introductory scuba lessons in the Cliff's Club pool at Princeville.

KAUAI DIVE SITES

Most dive sites are on the southern coast because it is the lee side, but there are also several good sites on the east coast that are diveable on most days. The north shore is dived when heavy ocean swells come from the south. In winter, 30 foot waves are common along the north coast. While Kauai doesn't have as much live coral as the other islands, it has good lava formations and impressive numbers of fish, turtles, eels and black coral trees.

The Aquarium is a small wall hosting numerous varieties of fish. On this 40 foot dive, you will see schools of taape.

Ahukini Landing is a marvelous night dive when its numerous invertebrates such as shrimp, crabs, Spanish dancers and others come out of hiding.

Brennecke's Ledge is an undercut ledge dropping from about 60 to 90 feet. It has lots of bright tropical fish, some turtles, occasional pelagics and even some black coral.

Black Coral Archway is an exciting site for experienced divers. The ceiling of the 30 foot wide archway is about 90 feet below the surface. Large black coral trees hang from the ceiling. The wall behind the archway drops to a sand bottom at 130 feet.

General Store has a U-shaped ledge with three small tunnels. Loose Eel, a large moray, can be found by a section of concrete pipe at a tunnel opening and swarms of the omnipresent yellow butterflyfish follow you around.

Koloa Landing is a shallow, protected shore dive for introductory classes and beginning divers. There are plenty of fish and students can see Clifford the whitemouth eel.

***Luchenbach* Wreck** lies in 30 feet or less and is a good second dive after Black Coral Archway. You can pose by the large propeller, photograph through portholes and swim 100 yards along an anchor chain to visit an encrusted anchor that is home to a large eel and several tropical fish.

The Oasis features a huge pinnacle rising to within four feet of the surface from a barren, sand and lava bottom 35 feet below. It attracts Moorish idols and schools of pennant fish (also called false Moorish idols).

Oceanarium, on the north shore, has spectacular pinnacles and canyons from 65 to 140 feet. It is called Oceanarium because of the black coral and the wide variety of tropical fish you will see.

Sheraton Caverns are submerged lava tubes, 35 to 60 feet deep, that form a labyrinth with several overhead and side openings. You will almost always see turtles and lobsters.

Tunnels, a north shore dive, starts in only two or three feet, close to shore and drops to 50 or 60 feet. Take your dive light to look for sleeping whitetipped reef sharks in the many lava tube tunnels. This site is accessible from shore and is also great for snorkelers.

KAUAI DIVE OPERATORS

Aquatics Kauai, Ltd. †
733 Kuhio Hwy.
Kapaa, HI 96746
(808) 822-9213

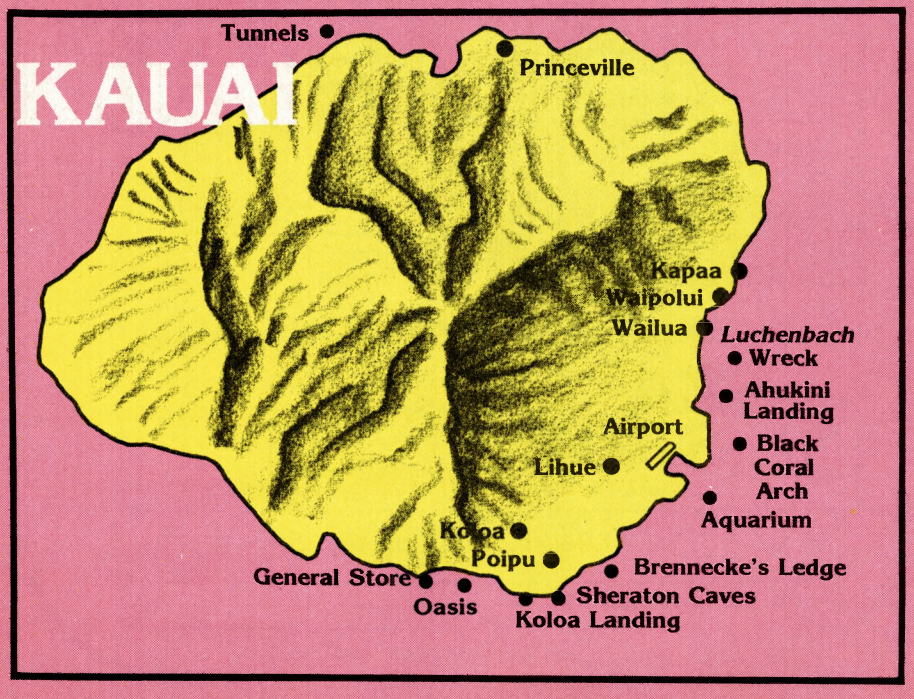
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Technifacts

BY E.R. CROSS



The principle objective of Technifacts is to provide SKIN DIVER readers with answers to technical questions addressed to the magazine. Occasionally, however, subjects are discovered that seem to need discussion or further investigation. One such subject I recently rediscovered is rivers and their dams. In October 1984, I drove 3,085 miles across Washington, Idaho and Oregon investigating the nature and environments of many of the rivers and dams of these states and the effects they had on the people who live on or who visit these great flowing streams of water. I particularly wanted to know what part the rivers and their interrelated dam complexes played in the lives of both recreational and commercial divers. Granted, a 3,000 mile trip is but a small sampling of the rivers and dams in the United States and only a miniscule example when considering waterways and dams of the world. But what I found is, I believe, representative of other areas.

ABOUT RIVERS

Rivers are natural, freeflowing bodies of water that are, literally older than the hills that surround them. The beginnings of some apparently date back billions of years. The rivers have, throughout the ages, played a critical part in the development of the cultures of mankind. First single huts, then towns and finally great cities and industries, with the resultant potential for pollution, developed along the rivers. For more than 4,000 years, dams have been built on these rivers to put the water to work, often with little concern for the effects on their ecosystems.

One of the definitions of the word amenity is, "Something that makes life easier or more pleasant." I believe this is the definition Oliver Wendell Holmes had in mind when he wrote a century ago, "A river is more than an amenity. It is a treasure." Since those words were written many rivers of the world, like many of the treasures, have suffered profanation by mankind. However, most rivers are cleaner now than they were a decade ago and improving. In 1968 the federal government passed the Wild and Scenic Rivers Act to try to keep certain untouched rivers in a pristine state. Less than a dozen rivers have been included in this program but others are being considered, including the St. Joe in Idaho and the Minam and John Day Rivers in Oregon, all of which I visited last October.

RIVERS AND DAMS

Even without dams, rivers served and continue to serve, important needs of mankind. The critical functions include being a source of drinking water and to water crops. Rivers also serve as channels for shipping, sources of fish and an important place for recreation for diver and non-diver alike. With the construction of dams rivers became more useful and more important than before. But with dams came changes in every aspect of the environments bordering these rivers. It is to be noted that every major river in the western United States has been altered by the construction of dams. The surrounding countryside has been changed, too. A series of several dams and navigational locks now provide slack water navigation from the Pacific Ocean into the very heart of the Inland Empire along the Snake River to above Lewiston, Idaho and Clarkston, Washington.

Whenever there are radical changes in an environment there must be a trade-off of losses for some benefits. So it has been with the construction of dams across rivers. The personalities of today's western rivers are vastly different than they were before the construction of the many dams. It has been said that the very soul of the rivers lies at the bottom of the placid water behind the dams.

There are many benefits gained by constructing a dam across a river and they are important. In most cases the significant benefit is to gain control of the water in the river to prevent seasonal flooding that results in great property damage and loss of life. This same control of the water in a river also provides for controlled rate of flow and direction of flow so vast acreages can be irrigated for the benefit of thousands of people who rely on crops from the irrigated acres for food. This same control also permits the tremendous amount of energy, stored in water falling from one level to another, to be converted to electrical energy that provides inexpensive heat and light to millions of homes and energy to thousands of industries.

Another important benefit derived from a dam is that an almost inaccessible wilderness area becomes an aquatic playground available to thousands of watersports minded people each year. Northern Idaho's Dworshak Dam is an example of such a development. Prior to damming the North Fork of the Clearwater River most of the present lake area was inaccessible. Now there is a 53 mile long lake with 183 miles of shoreline accessible, across more than 10,000 acres of public land open for use by campers and for boating and fishing. There are more than 80 mini-camping sites established along the shore near creek inlets, some at remote stretches of the reservoir and inaccessible except by boat. Truly a hydro-park for thousands of visitors, Dworshak also develops over one million kilowatts of electrical energy, enough to supply a city the size of Seattle, Washington. A fish hatchery releases over 3 million steelhead smolts every spring and rears over 1.5 million rainbow trout for the resident fishery in the reservoir. A 5,000 acre elk habitat is managed at the head of the upper reservoir.

But there is always a trade-off. What has been lost? A large wilderness area has been flooded to a depth of several hundred feet in places. Some forests were lost to flooding. Other wilderness areas were opened up to logging via the resultant lake. Habitats of woodland creatures were flooded. Probably some archaeological sites were lost but most were found and studied before flooding occured. The dam blocked off the anadromous steelhead trout run on the North Fork (hence the need for hatcheries). There was bound to be slight to violent upheaval of feeding and breeding habits and trails of the animals inhabiting the now flooded areas. And, finally, the impact of civilization on a once more or less wilderness area may bring even more drastic changes in environmental quality.

And, so it is, to a greater or lesser extent, with the construction of all dams. There are changes in the environment. The impact on the ecology of the area will depend on how much tender loving care residents and visitors provide.

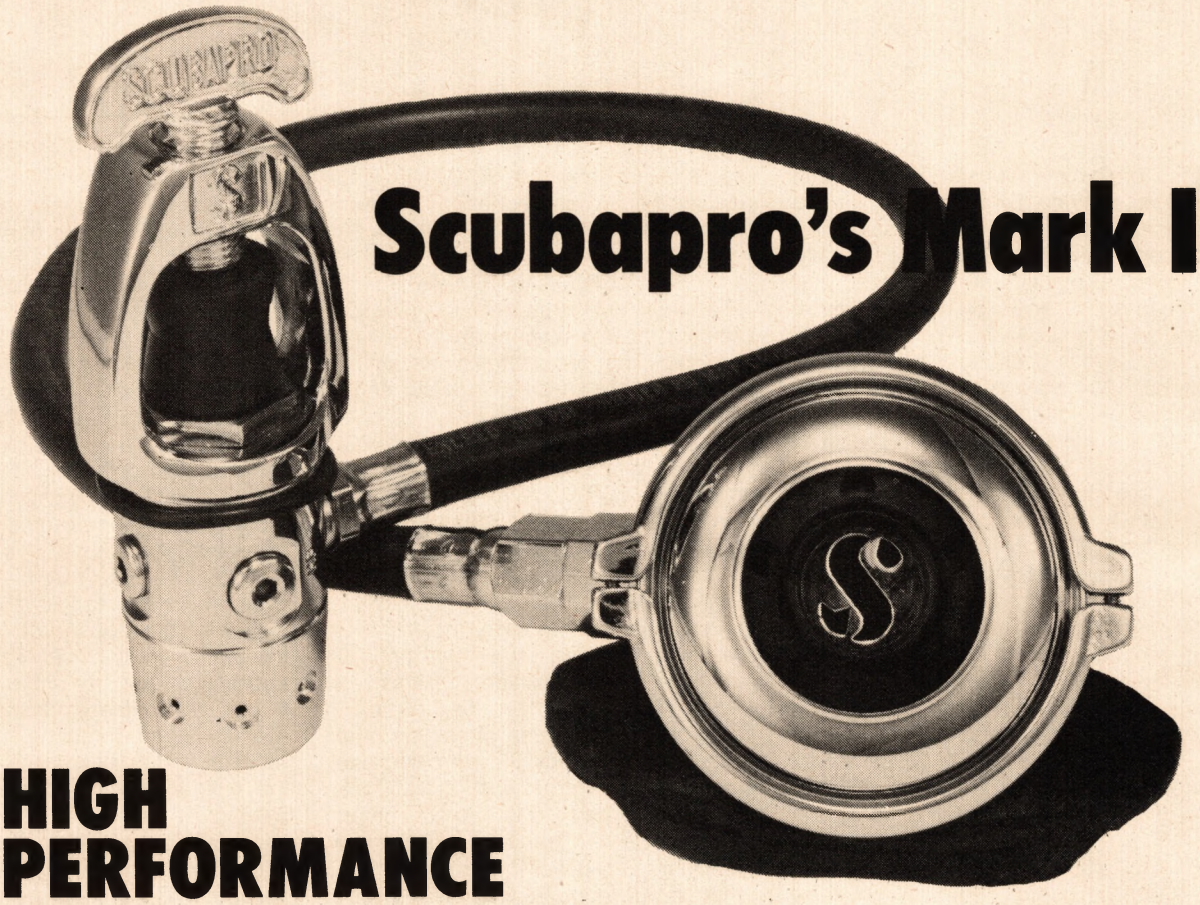
RIVERS, DAMS AND DIVERS

Only one small group of divers has regularly tried to tame the wilderness-type river across which dams are usually con-

(Continued on Page 98)

MARK III

Scubapro's Mark III



HIGH PERFORMANCE

TEXT AND PHOTOGRAPHY BY GEORGE COZENS

Scubapro describes the key features of its most economical regulator package—the Mark III first stage with the High Performance second stage—as "simplicity, reliability and low maintenance." To this we can also add "quality," a characteristic that has been associated with the name Scubapro for a good many years. After only a brief examination of this regulator it is evident quality materials and craftsmanship have not been sacrificed for economy. Rather than cut corners in these areas Scubapro has relied on a very simple, almost timeless configuration in the first stage. The Mark III is a classic example of simplicity. Its design, developed by Scubapro, dates back to early 1963. As the manufacturer states, the Mark III has "survived over 20 years of 'use and abuse' virtually unchanged." That's quite an accomplishment. As with most devices, the simpler the design, the more reliable it will be and the lower its maintenance. Such is the case here: The Mark III has only one internal moving part, the piston. This chrome plated brass piston is pushed to the closed position by intermediate pressure air acting on its face, while an adjustable spring and ambient pressure pushing against its underside, and (to some extent) high pressure air from the cylinder pressing on the end of the piston stem, combine forces in the opposite direction to push the piston to the open position. When the diver inhales, the intermediate pressure drops slightly and the piston opens to allow a flow of air to the second stage. When inhalation is ceased, the intermediate pressure builds up a little and closes the piston valve. Simple, yes?

Additional advantages of this design are compact size and light weight. The heavy duty little Mark III weighs only about 21.5 ounces, even though the body is solid brass, chrome plated and the 3,300 psi rated swivel yoke is chrome plated forged brass. Other materials include a stainless steel spring, a Teflon high pressure valve seat, a chrome plated brass wing shaped yoke screw and a solid rubber, reversible dust cap. The Mark III also has one high pressure port, marked HP, and three low pressure ports, spaced evenly around the body. Since 1979, it has had Scubapro's Silicone Protected Environmental Cap (S.P.E.C.). This allows the ambient pressure chamber (where water normally enters to press against the underside of the piston) to be filled with a special silicone grease. Since water no longer enters this chamber, salt, sand and silt deposits from dirty water and freeze-ups on cold water dives are prevented. Also, this silicone grease lubricates the piston O-rings and spring, reducing friction and wear on the parts.

If the Mark III first stage has a drawback, it might be that the design is not balanced. With high pressure air pushing directly on the stem end of the piston, the

regulator's performance might be expected to change as tank pressure drops during the dive. There is a change. As measured by the manufacturer, intermediate pressure air may range between 128 and 140 psi when tank pressure is 2,000 psi, and between 110 and 130 psi when the pressure drops to about 300. You might think this would cause the second stage to breathe differently but this was not the case on my evaluation dives. I didn't notice any perceptible change in the performance.

Connecting the first and second stages is Scubapro's Super Flow Hose. This 28 inch hose fits standard low pressure ports, but has a one-third greater air flow capacity than conventional hoses.

Completing this regulator is Scubapro's High Performance second stage. It was introduced in 1981, when it appeared with the Mark VIII first stage. We reviewed it in the June 1983 issue, on the Mark IX first stage. The High Performance second stage, like the Mark III first stage, is simple in design and conventional in use of materials. It is based on a venturi-assisted, downstream demand valve: "Venturi-assisted" means that the air, in flowing through the second stage, helps to reduce the inhalation resistance. "Downstream" means the demand valve opens in the direction of the air flow, so any overpressure from the first stage will automatically vent through the second.

The second stage housing, including the back, cover and clamping ring, is chrome plated brass. The demand valve seat, diaphragm cover, mouthpiece and exhaust tee are all neoprene rubber, albeit of different compounds. The exhaust valve is silicone rubber, for greater sensitivity and longer life. The diaphragm is now being made of injection molded, liquid silicone rubber. This material allows the diaphragm to maintain high tear resistance while being 15 percent thinner and thus more sensitive. Stainless steel is used in the demand lever. A plastic plate is assembled to the back of the diaphragm. An ultra-smooth polish on the demand lever reduces friction and wear between the lever and the plate.

The High Performance second stage features a relatively large, slightly protruding purge button, (which permits easy access even with a gloved hand) and a doubly adjustable demand valve. With this latter, both the demand lever spring compression and the position of the orifice can be adjusted to give any cracking pressure (the initial inhalation resistance) from about 1.1 to 1.8 inches of water, over the range of intermediate pressure from 115 to 160 psig, while providing an average air flow rating of about 25 cubic feet per minute.

With such conventional designs and non-corrosive materials, the Mark III/HP requires only minimal maintenance. Just rinse in fresh water after use and dry out of direct sunlight. Annually, professional service by an authorized dealer, or by the factory, is required to keep the limited lifetime warranty in effect. These service costs should consist primarily of labor charges, since the warranty covers most replacement parts, except the mouthpiece and hose assembly (they have a one year warranty) and the high pressure filter (which has no warranty).

The evaluation dives were made one beautiful day in December, from the charter dive boat, *Scuba Queen*, out of San Pedro, California. The dives took place just off Black Rock, on the mainland side of Catalina Island. The first dive was to a depth of about 100 feet. With inhalations and exhalations ranging from very slight to greatly exaggerated, I made mouth-to-mouth comparisons between the Mark III/HP and a Mark V/Air I. Exhalation resistances apeared to be relatively close when comparing the two regulators under identical conditions. Understandably, inhalation resistances were a little higher for the Mark III/HP but it performed quite well, delivering a very respectable amount of air at 100 feet: I could not out breathe it. This changed very little as I got shallower and as cylinder pressure dropped. Subsequent dives were made from 10 to 30 feet and the comparisons remained about the same. Breathing characteristics were what I would expect of any typical single hose regulator in the different orientations tried. When standing on my head and when on my back with my head tilted far back, I did experience a small trickle of water: Noticeable, but not annoying. And, at the beginning of each dive, when the tank pressure was high, the second stage emitted very minute bubbles whenever I was upside down, but didn't seem to repeat itself later in the dives. Perhaps this was because the intermediate pressure was dropping, ever so slightly, with the decrease in the tank pressure. Freeflowing was fairly typical for a finely tuned second stage: It only seemed to erupt when the mouthpiece was pointed upward and the stage was full of air or the purge depressed. But freeflowing ceased when the mouthpiece was turned down.

Knowing the first stage was unbalanced, I made a special effort to check the inhalation resistance at low tank pressures. There seemed little or no change, even with about 100 psi left in the tank. This check was made in relatively shallow water close to the boat.

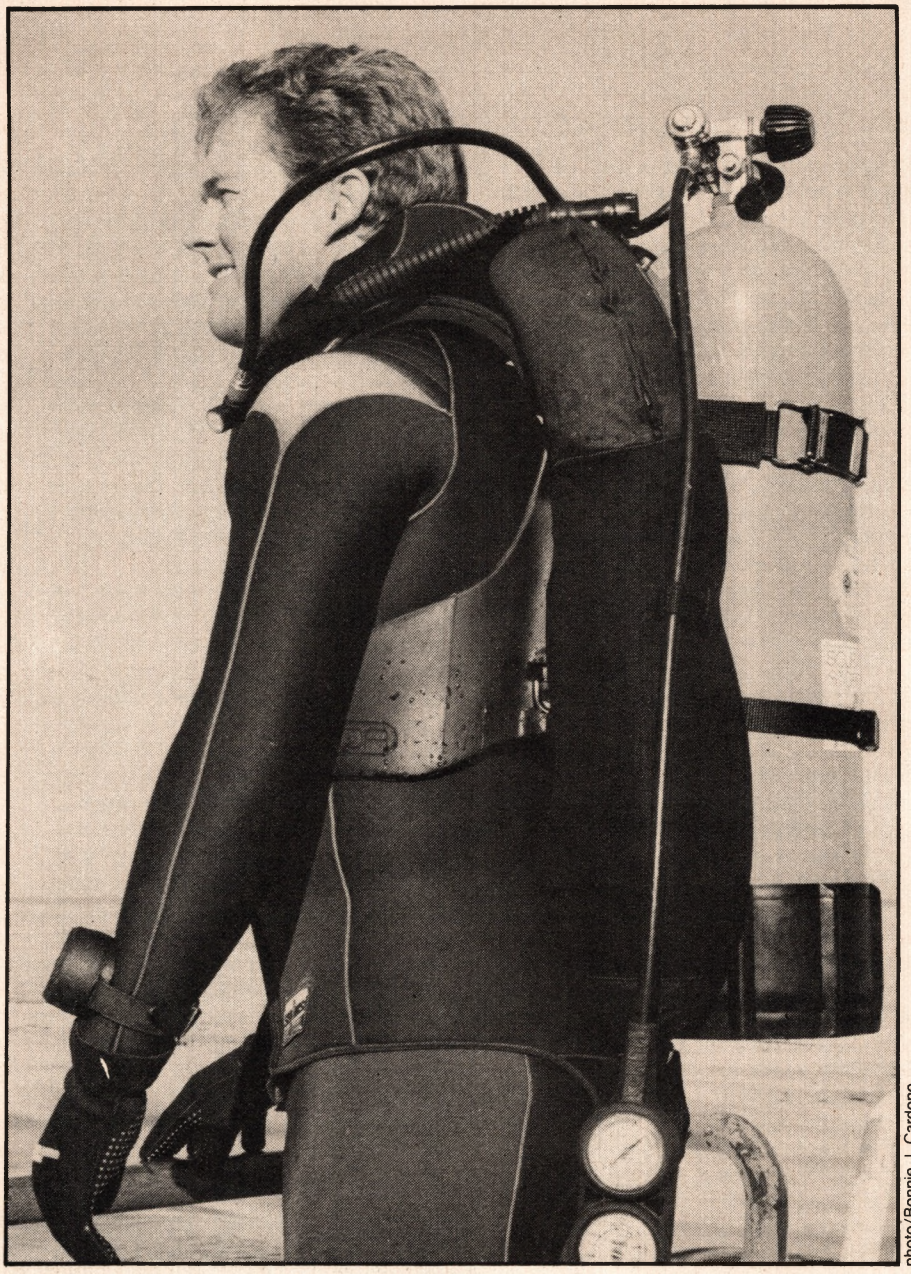
Don't let the stigma of the label "economy" influence your opinion. The Scubapro Mark III first stage with the High Performance second stage is a very sound regulator. Born of a time proven design, made with corrosion resistant materials and backed by an excellent warranty, this regulator is worth the consideration of any sport diver on a limited budget. It sells for about $198 at your Scubapro dealer.

The Scubapro Mark III first stage and High Performance second stage combination offers reliability and low maintenance. The first stage has a chrome plated, solid brass body yet weighs only 21.5 ounces. The second stage has a back, cover and clamping ring of chrome plated brass. The mouthpiece and exhaust tee are neoprene rubber. The purge button can be reached easily with gloved fingers.



CUDA SYSTEM

BY JIM WALKER



photo/Bonnie J. Cardone

CUDA stands for Custom Underwater Diving Apparatus. You might call it a BC—and it is that. You might call it a backpack—and it is that, as well. It's also a weighting system, gear bag, flight bag and shipping case. With Cuda, a diver heading to a tropical resort where tanks are provided can carry all essential dive gear with him/her on an airline. That same gear can also travel in the plane's cargo hold in a sturdy, compact package.

The designers of the Cuda have taken a dramatic and innovative departure from the usual. It appears that they took each item—BC, backpack, weightbelt, gear bag—one at a time, and decided how they could make it simpler. Then they joined these items in a system and simplified some more. The result offers a different approach to diving.

Probably the most radically different component of the Cuda is the backpack. The first thing you will notice is there are no shoulder straps. Instead, there are two bendable, padded shoulder rests. These are custom fitted to the diver and allow the Cuda system to be slipped easily on and off. (Tropical resorts have been using more basic versions of this harness for years.) No longer does the diver have to struggle to avoid entanglement with unruly straps while slipping arms through to don the tank. The diver can stand the tank and pack on a bench or railing and, while holding it steady with one hand, sit down and stand up into it. If no platform is available a buddy can hold the system up for you.

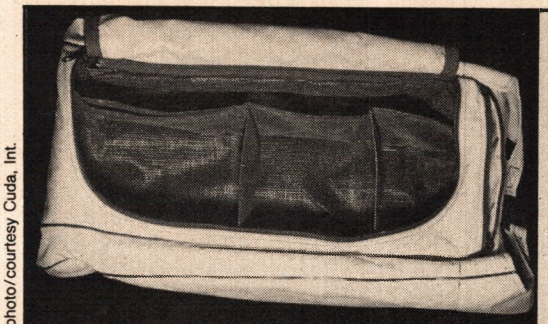
The pack is made of sturdy polyurethane and the shoulder rests have steel cores to provide strength and hold the desired shape. The waist strap emerges from two flexible polyurethane side panels. It is fully adjustable and closes with a large, snap-in plastic buckle. With the waist strap and shoulder rests properly adjusted the backpack encloses the torso comfortably and won't come off in anything short of a double flip under a wave during a surf entry—and I doubt if even then.

The Cuda's second major departure from the ordinary is also part of the backpack—the diver's weights go in it! And, these are solid weights. The medium size pack I tested held four, four pound lead weights. These slip up into the pack in two sturdy cavities and are held in place by a stainless steel rod that is encased in polyurethane (CUDA's "Weight Release Door") which snaps into the pack under the weights. In an emergency the diver can drop the weights instantly by pulling out either of two snap-in tabs on the retaining rod. At first glance this lock-in system doesn't look to be sturdy enough to hold all that weight, but it is. For several hours on a rocking, bouncing dive boat the weights stayed in place while the pack was strapped to my tank, which was upright and bungeed to a railing. They also stayed in place through giant stride entries of about eight feet.

In my case the 16 pounds of weight in the pack weren't enough to counteract the buoyancy of my quarter inch thick jacket and farmer johns. Cuda International provides optional nylon fabric pouches that slip over the waist strap. Each will hold a four pound weight. These have Velcro® closures at the top and bottom so the diver can drop the weights in an emergency. One point to note here is that because the Cuda incorporates the weights into the backpack the diver carries a lot of weight on the shoulders (i.e., tank, weights, pack, regulator, BC). Hiking for any distance with all that weight is not recommended.

Two straps secure the tank to the pack. One is just a stabilizing strap (nylon webbing with snap-in buckle) for the lower end of the tank. The other is permanently attached to the BC. It slips easily over a central "cleat" in the pack and becomes secure when clamped on the tank. In this way the BC can be removed from the backpack in seconds for easy rinsing and can be packed away safely during travel.

The BC is large (44 pounds of buoyancy). It fits behind the pack, around the tank. A strap/buckle at the bottom of the two lower lobes allows them to be snapped together behind the hips or in front of the chest. This gives the diver a choice of fit for comfort and angle of flotation at the surface. Either was comfort-





photo/courtesy Cuda, Int.

The Cuda system consists of a BC, gear bag and backpack that combine in an easily transported package and eliminate the need for a weightbelt. Above: The Cuda Case has two pockets, the larger divided into compartments for neat gear storage. The BC can be worn behind the back (below) or snapped together across the chest under the arms.





photo/Bonnie J. Cardone

Top: The gear bag can be carried as a backpack. Large pockets on the sides accommodate fins. Above: The system can be arranged for compact air transport.

able for me and the chest snapped or "armchair" method allowed me to kick backward across the water's surface, through thick kelp, with relative ease.

The BC has an inner bladder of 12 mil thick urethane, protected by an ultra-tough, zipper opened, Cordura nylon outer bag. It has an overpressure relief valve on the right shoulder and an oral/low pressure inflator hose on the left (these can be reversed). Pulling down on the hose opens a dump valve. To keep it handy, the hose attaches to the left shoulder rest of the backpack by Velcro.

To allow the lower lobes to flex into the armchair position they are covered with two layers of stretchy spandex/Lycra. Inside each lobe is a jointed, polypropylene strengthening rib. Mesh drain panels tip each lobe.

As mentioned, the tank band is permanently secured to the BC. It is nylon webbing and fully collapsible for easy packing. The closure is made with a chrome plated buckle which snaps over and is secured with a Velcro tab. A rubber liner keeps the band from slipping on the tank but the band should be retightened after getting wet.

The Cuda gear bag (Cuda Case) is an ingenious component of the system. The standard size measures about (depending on packing) 16 x 24 x 8 inches—small enough to fit under an airline seat. Made of the same tough Cordura nylon as the BC, it also has a hard yet flexible liner of ABS plastic that runs along the back and curves around each end. Four loops sewn on the back allow the backpack to be slipped through in two ways. In one mode the pack surrounds the bag and straps onto it, protecting the sides of the bag not already protected by the liner. This is how the bag goes on an airliner or is shipped. The other mode allows the bag to be carried on the wearer's shoulders as a knapsack. (Note: The tank cannot be carried in the pack while the bag is attached.) For transport, Cuda offers a nondescript duffle bag ($30) which encloses the entire system and hides the fact that valuable dive gear is within.

The bag has two noncorrodible YKK zippers. The smaller opens a pocket, separated from the main compartment of the bag by a waterproof Cordura lining. This is where the diver keeps small items dry. The larger zipper opens the main compartment, which has a mesh, zip-in lining to allow air to circulate around the gear inside. The mesh can be easily removed to allow cleaning of the bag interior. The main compartment is divided by mesh into five smaller areas. Your mask goes next to the waterproof pocket and the regulator goes in the next area. The last two compartments are for the BC and wetsuit with the BC pocket running the length of the bag along the side. Dive tables go in a slot in the divider between these compartments.

To fit under an airline seat the Cuda bag had to be kept small. It will carry essential items of gear you don't want to be without but isn't intended as a carryall. However, in the backpack mode the Cuda leaves the diver's hands free to carry any additional bags desired. A 16 x 8 inch Add-a-Bag is available which attaches to the parallel straps on the standard bag. Also, Cuda Int. offers a larger version of the Cuda Case that measures 16 x 33 x 8 inches.

The Cuda bag also has two compartments outside for carrying your fins. These are secured by fold-over straps of Cordura that buckle together. The pockets are surprisingly large and accommodated my standard size fins with ease. Additionally, the bag can be hung up by the Cordura straps and its contents rinsed off, with water draining out mesh panels at the bottom.

The Cuda system has a lifetime, one owner warranty. It is available with small, medium or large pack for $595—$625 with extra long bag. (Weights are optional.) It comes in black, light blue, burgundy, slate gray, red and international orange. The BC and backpack, without the bag, are $475. The extra weight pockets are $14 each and extra weight release bars are $16. See your Cuda dealer or contact the manufacturer: Cuda International, 10521 Gulfdale, San Antonio, Texas 78216.

CUDA

Buoyancy	44 lbs.
Outer bag	Cordura nylon
Inner bag	12 mil thick urethane
Weighting	16 lbs. lead in pack
Transport	As pack or flight bag
Price	$595



ABALONE DIVING

SEARCHING FOR SIRLOIN OF THE SEA

TEXT AND PHOTOGRAPHY BY BONNIE J. CARDONE

Some things, it seems, are meant to be. I wasn't looking for game that day at San Nick, I was looking for the close-up lens I had just lost. Gifts from Neptune, however, are not to be ignored. I came upon an ab iron just lying there on the rocky bottom. I picked it up. Two kicks more and I came upon the biggest red abalone I had ever seen. It was on top of a rock barely larger than it was. It was obvious to me that this ab was supposed to be mine. It was not obvious to the ab. It clamped down on the rock with all its strength. The surge tossed me about and the rock rolled from side to side. In the end, I persevered. Back on the deck of the dive boat the ab was admired and measured. It was nine inches long—a very nice size for an abalone these days. It was probably about 16 years old.

Abalone belong to the phylum Mollusca, class Gastropoda, family Haliotidae. In other words, they are snails. There are several distinct West Coast species of which red, white, black, pink and green are the most common. There are also hybrids. Whites, considered the most tender, are found in deep water, generally 90 feet or more. Reds, the largest species, prefer the colder waters of the four Northern Channel Islands but are also found at San Nicolas. Blacks, considered the least desirable because of their toughness, are found close to shore in shallow water and are sometimes out of the water at low tide. Greens and pinks are found in common sport diving depths. Greens have the prettiest interior shells—iridescent blue and green—and are prized for this. Pinks are considered close to whites in tenderness.

Abalone are not prized by man alone. Sea otters, starfish, octopus, crabs, rays and fish, such as cabezon and sheephead, are also fond of abalone dinners. Add to this the fact that abalone lack a clotting mechanism and can bleed to death with only the smallest cut and you begin to understand why they are not as easy to find as they used to be.

To take abalone in California you must have a sport fishing license and carry a caliper type measuring device with you underwater. Abs may only be taken with an iron made to California Fish and Game specifications. You may not use a knife or any other sharp instrument. Before this law was enacted, many short abalone died from cuts received when they were pried off rocks. Determine whether an ab is legal size before you detach it. If, however, you measure one you thought was legal and find it is short, by law you must immediately replace it on the rock from which you took it. Abs must be measured underwater, you may not bring them ashore or aboard a boat to do so. All legal size abs detached must be retained; when you have your limit of four you may not take any more.

Although abalone may be taken with scuba below Yankee Point, they may only be taken by free divers north of there. The season for Southern California is March 16 to January 14; it is closed between January 15 and March 15. North of Yankee Point the season is April, May, June, August, September, October and November. The bag limit is four. You have to learn to identify the various species because there are different size limits for each. The minimum length for reds is seven inches; for greens, pinks and whites, six; for blacks, five; and for all other species, four inches.

All abs look alike to the novice diver: It takes awhile before you learn to see the differences. You soon learn, however, that the fringe of short tentacles that sticks out around the edge of the shell differs in color. On reds and blacks this is black; whites have a mottled beige; pinks are black and white; greens have

MICROWAVED ABALONE MEATLOAF

Ingredients:
Abalone (5-6)
1 can cream soup
¼ C chopped onion
Seasoned bread crumbs
Parsley and two other herbs, to taste

Clean abalone and cut in chunks. Put through meat grinder. Combine well with other ingredients. Any cream soup, such as chicken, onion, mushroom or celery may be used. Season with parsley and two or three of your favorite herbs. Sage, savory, thyme, dill weed, tarragon, basil and oregano go well with seafood.

Pack the mixture into a microwaveable ring mold or loaf pan. Bake for 25 minutes on high. Although the mixture does not need to be stirred, liquid should be drained from it two or three times.

olive green with brown. The shells are also unique to each species. Reds have a heavy shell that's bright red under the incrustation usually found on it. Greens usually have little growth on their shells. Blacks have smooth shells. Pinks and whites are corrugated. The edge of a pink's shell is pink or pale turquoise on the inside. Pinks and whites are usually heavily encrusted. While blacks and reds have relatively flat shells, those of whites are dome shaped. The inside of the shell contains a muscle scar if the ab is a pink, green or red; there is none on the shells of blacks or whites.

Although juvenile abs move around a great deal, adults seem to find a spot and stay there, moving very little. Called a scar, this spot is kept clean of growth by the animal. Abalone eat algae that drifts by. The type eaten determines the color of the growth bands on the outside of the shell. For example, a red ab that feeds mainly on red algae will have a shell with red bands. Brown or green algae produce aquamarine, green or white bands. If you offer the animal a piece of kelp it is very likely to rear up and grab this food with an intensity and speed that will astonish you.The ab's mouth is at the end of the shell opposite the spiral. On either side of the mouth are two slightly longer tentacles that contain simple eyes.

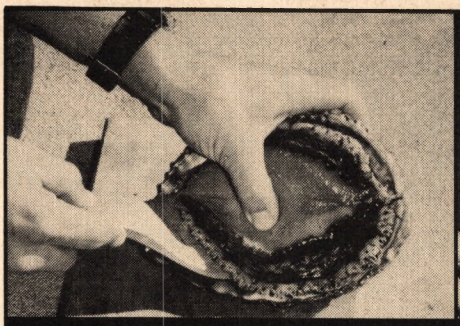
Many abalone have commensal shrimp living between mantle and shell: The tiny purple *Betaeus harfordi* looks very much like a baby lobster.

Since they are sedentary, abalone are easy prey for divers with the proper tools. Large reds have incredible strength but a strong, long ab iron detaches them quite efficiently. Novice divers often attempt to dislodge abs by pushing down on their ab irons. This will injure the animal and if it is a short, it will probably bleed to death even if the cut is slight and the animal is returned to its rock. If an ab senses the presence of a predator it will clamp down tightly with amazing suction power. Try not to disturb the water around your prey as you quickly insert your ab iron as far under the animal as possible. Then, lift up on the iron and pop the ab off the rock. You will find abs in rocky areas; they like cracks and crevices.

Abalone are estimated to live about 20 years. According to Jim Houk of California Fish and Game's Marine Culture Lab, it takes an ab about ten years to reach legal size. They start reproducing, however, when they are about two inches long. The largest ab on record was a red; it was more than 11 inches long. The Marine Culture Lab raises from 50,000 to 100,000 reds and 20,000 pinks every year. Some of these are released in certain areas along the coast and around the Channel Islands. Others are studied to help biologists discover how to raise healthy abs the easiest and quickest way in the lab.

Sometimes called Sirloin of the Sea, the ab is considered quite a delicacy. Because of the return of the sea otters to central California the commerical abalone fishery take is way down. It is estimated that sport divers and commercial fishermen now take about equal amounts of the animal. If you buy abs at a fish market it will cost you close to $30 per pound. An ab dinner at a good restaurant runs about $22. Guess I'll keep diving for mine.

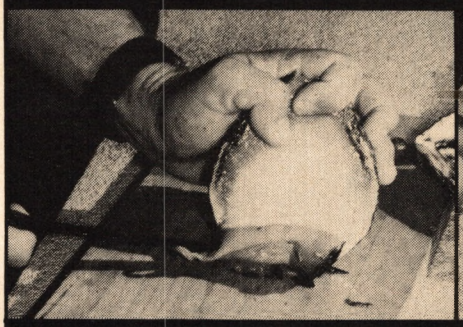
Note: New Fish and Game rules become effective March 1 of each year. These were not finalized as we went to press; be sure to check for changes regarding abs.



To shuck an abalone, slide a wooden spoon or ab iron between the animal and its shell. The meat pops out easily.



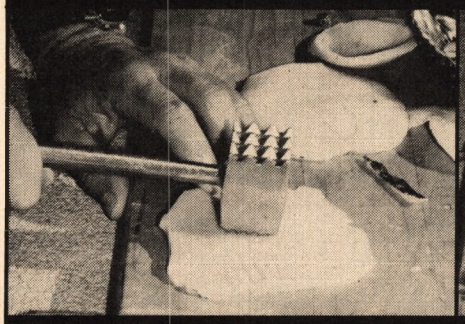
Once the meat is out of the shell, make a V-shaped cut at the mouth. With this removed the viscera can be pulled off.



Trim the short tentacles off all the way around the muscle. These can go in chowder. Slice the sole of the foot off.



Slice the muscle into steaks about one-eighth inch thick or, cut the meat into small chunks for use in chowder, etc.



Pound the steaks with a meat hammer to break up the fibers in the tough muscle. This will tenderize the ab meat.



When you're finished pounding, the steak should resemble lace and will be fork tender. Keep cooking time short.

ABALONE STEAKS

Ingredients:
Abalone
Cracker crumbs
One egg, beaten
Milk
Oil or Butter

Slice abalone horizontally into 1/8 inch steaks. Pound with meat hammer until steaks resemble lace. Combine egg and milk; dip steaks in mixture, then coat both sides with cracker crumbs. Heat oil/butter in skillet. Fry the steaks no more than one minute on each side. Serve at once.



American Radhial's Cub 400

A Traditional Boat That's Cartop Transportable

TEXT AND PHOTOGRAPHY BY ERIC HANAUER

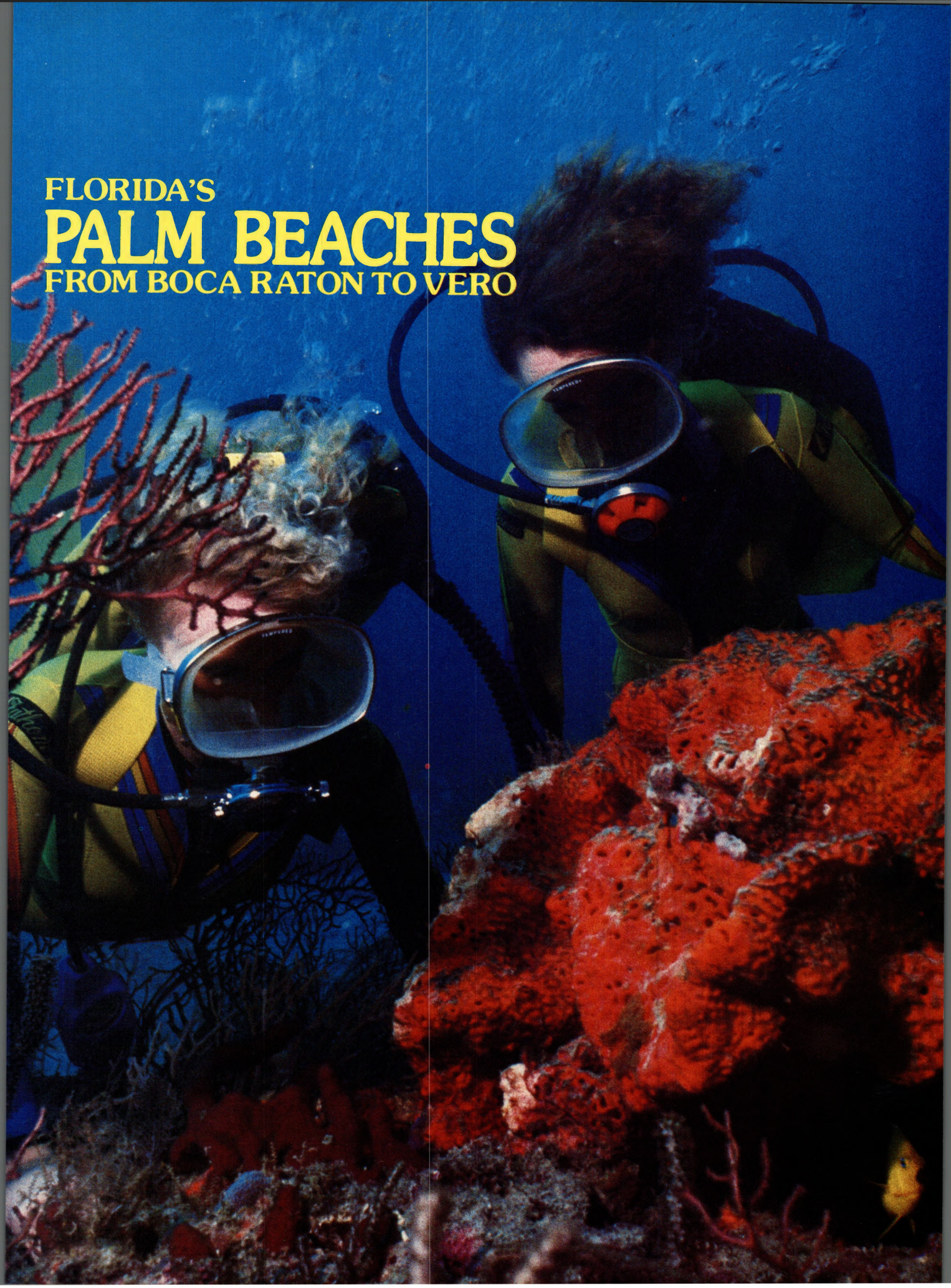
There are 34 manufacturers of inflatable boats in Italy; nearly every city of any size has a factory where they are made. According to Franco Rossi, president of American Radhial, they all have to be good because of the competition. Most are brands we never heard of, but several are now sold in this country.

One of the newest is the Cub 400. A well established make in its homeland, its Italian name is Jokerboat. Radhial bought the Milano firm but changed the name of the vessel for the American market, probably because they felt we wouldn't take a Jokerboat seriously. The number is the metric equivalent of its 13 foot length. Rossi doesn't know the derivation of the first name. Imported by American Radhial and sold through its dealer network, the Cub provides the company with a conventional, lower priced boat to complement the regular line. Radhial boats are made of a heat bonded plastic material with a toggle zipper outer skin. They feature inner tubes to hold the air, similar to modern buoyancy compensators. In our past reports, we called the boats radical, but gave them high marks for quality and performance. In contrast, the Cub is as traditional as daytime baseball—constructed of 1,200 denier Trevira fabric, coated with neoprene on the inside and Hypalon outside.

The first thing one notices about the Cub is its extensive use of wood. At a time when many manufacturers are going to aluminum floorboards, these are all wood, even the stringers. They are eight ply mahogany, with the transom 18 plies of the same material. The cost of quality wood is lower in Italy and woodworking is an honored tradition. This is one reason Italian manufacturers have been slow to adopt aluminum. Although wood boards will require more care and maintenace, no one can deny they look good. A carpet is recommended to keep them looking that way. Annual sanding and refinishing will help, too.

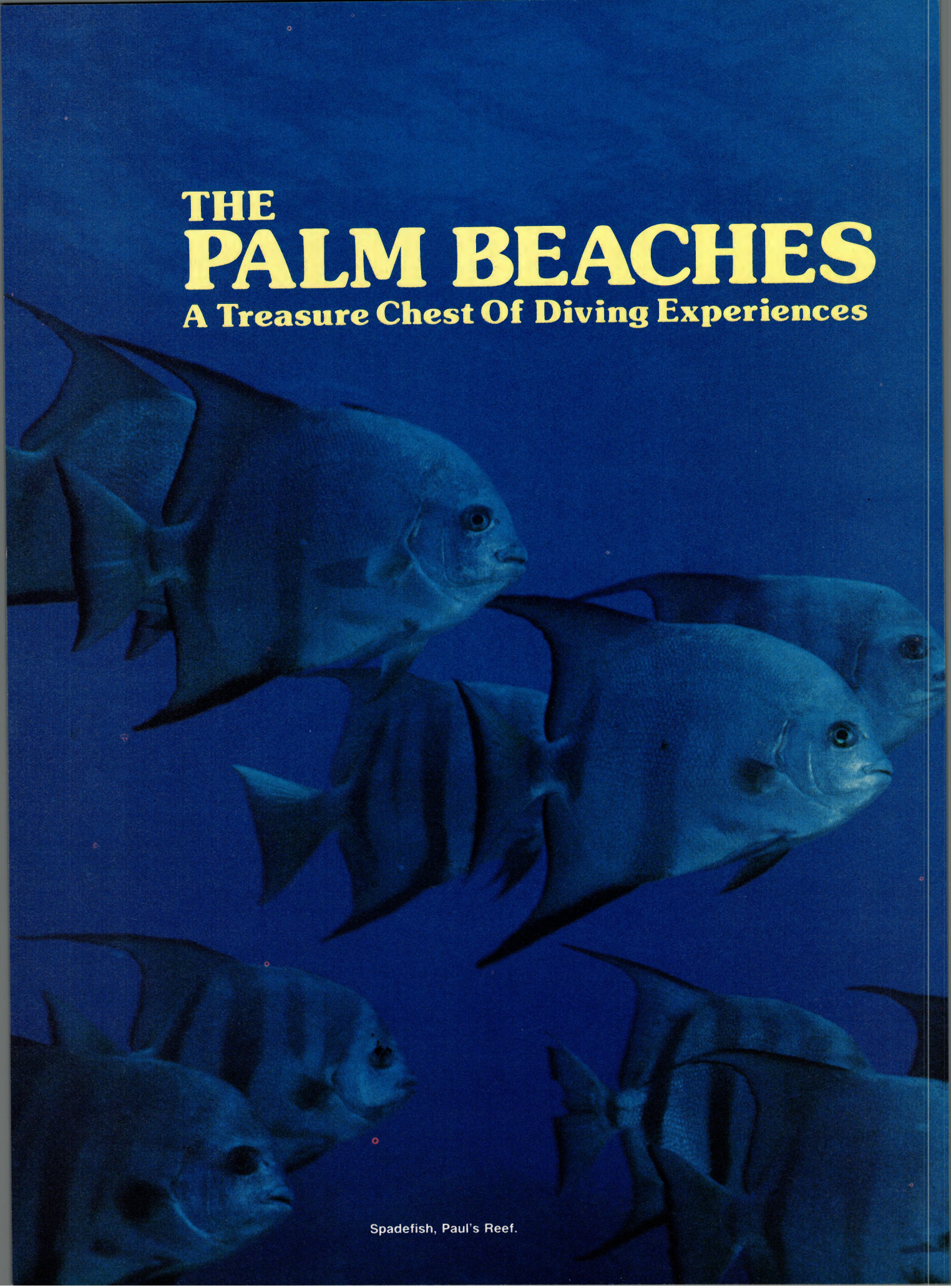
At a length of 13 feet, the Cub 400 fits into the market segment in which most inflatable dive boats are sold. It will carry up to four divers on short offshore trips and accept an engine up to 35 horsepower. It is transportable on a cartop, an operation made easier by a unique accessory which Rossi showed us. Called the *Caricabarca* in Italian, the device is a cartop rack that opens into a ramp. When you arrive at the destination, you slide out the ramp and roll the boat down, using a built-in hand winch. One person can easily lower and launch the boat or put it back on the cartop, using the *Caricabarca*. It is available through Radhial dealers.

(Continued on Page 100)


FLORIDA'S
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THE PALM BEACHES

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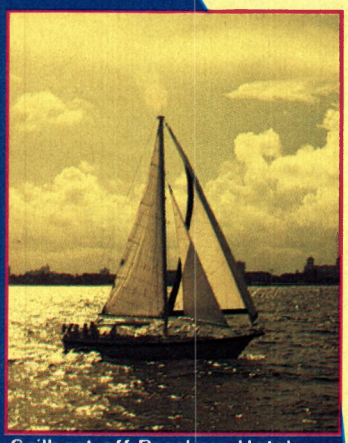
Spadefish, Paul's Reef.



Surfing Atlantic storm waves.



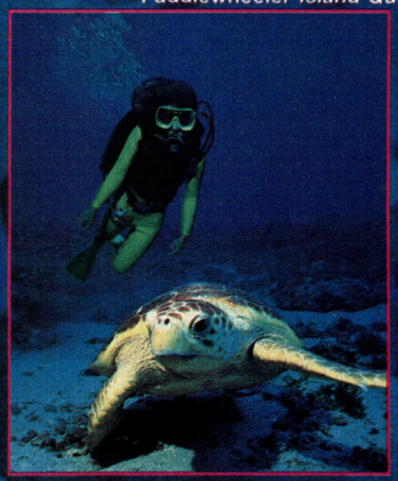
Palm Beach dive boat.



Sailboat off Breakers Hotel.



Paddlewheeler *Island Queen.*



Loggerhead turtle.



Horse conch, Palm Beach.

TEXT AND PHOTOGRAPHY BY STEVE LUCAS

As U.S. 1 winds up Florida's eastern coast there must be hundreds of automobile dealerships. New and used cars of any variety, make or model can be found somewhere along its stretch: Chevrolets, Fords, Chryslers, Toyotas, Ferraris, Mercedes.

But, only in Palm Beach are used car lots found like these. The salesman was quick to correct me, these were not used Rolls Royces, they were "pre-owned." From $70,000 and up, the entire row of a dozen or more were pre-owned, not only at this dealership, but at the one across the street. And, the one down the block! There were three pre-owned Rolls Royce dealers in one city, not counting the one who sold them new—this could happen only in Palm Beach. Not everyone drives a Rolls, most don't live in mansions, but the city and some surrounding cities, definitely have a feeling of grandness. Non-stop rows of tall, stately, royal palms adorn many boulevards. The avenues that weave along the shores of Lake Worth, between Palm Beach and West Palm Beach, have wide paths where people sit and watch their reflections, mixed with those of palms and sailboats, in the water. Paddlewheelers steam by, adding to the feeling of a grander era.

Along exclusive Worth Avenue, ultra-chic shops, with names like Gucci, have uniformed doormen. Manicured and walled estates stretch for miles along the shore south of Palm Beach inlet. Grand old art-deco hotels, with high spires and tiled roofs, serve as beautiful backdrops for marinas full of million dollar yachts, many of which never leave their docks.

Off the mansion-lined beach, the water is often champagne clear. Only a few miles out, the indigo of the northward moving Gulf Stream whisks trillions of gallons of transparent sea water along each second. This is Florida's closest point of land to the stream. Sometimes the clear water comes right to shore.

With its closeness, the Gulf Stream often brings its largest inhabitants very near to land. On more than one occasion immense, docile whale sharks have mingled with snorkelers out over the deeper reefs. Underwater photos of these encounters hang in several local dive stores. One photographer tells of seeing an overly ambitious fisherman in a small boat trying frantically to get a fish, whose large dorsal fin stood several feet out of the water, to take his bait. The fish was 30 feet long. The large whale shark didn't seem to mind as a half dozen divers dropped overboard to swim and scratch its back.

More commonly, visitors from the stream are turtles. Loggerheads, with carapaces three or more feet long, often glide out of the cobalt haze. Seeming to enjoy companionship, they sometimes swim straight in to become the center of attraction, perhaps coming close enough to separate buddies.

All along Palm Beach's shore, south to Boca Raton, the bottom is splattered with color. Reefs such as the Breakers, Trench and Paul's look as if they were painted with fluorescent plastic.

PALM BEACHES

They start in shallow water and run in almost continuous ridges, averaging 60 to 80 feet in depth. The coral rocks jump from the sand to form breaks sometimes six to ten feet tall. The majority, two to three foot steps, are overgrown with bright orange encrusting sponges. Pocked with holes where lobsters and tiny tropical fish hide, their faces are covered with vivid tubular, pink vase, green whip and miniature barrel-like sponges.

Near the city of Lake Worth, south of Palm Beach, the ridges are very high. Some, like Lynn's, reach 15 feet up from the ocean floor. Large schools of grunts, snapper and the occasional grouper swim along their walls aiming into the current. Bright red bigeyes hover under cover as yellow/purple Spanish hogfish dart beneath the overhangs.

On top of the ridge, large gorgonians wave in the flow while yellow-faced rock beauties peek timidly out of their protective shelters. Over the sand, schools of a half dozen to 30 or more large, silvery spadefish swim in harmony. Constantly disappearing and then reappearing out of the blue, they resemble a giant living metallic cloud. Beneath them, bright orange starfish crawl over white crystalline grit as 18 inch long pale-pink horse conchs pull themselves along the reef's face. In the crevices, large pufferfish inflate themselves when disturbed to look like porcupined beach balls.

Just north of the inlet, the diving takes on a different character; wrecks. A cluster containing a luxury ship, patrol craft and gutted freighter sits bow to bow on the bottom. Sunk as an artificial reef in depths of 80 to 90 feet, the *Mizpah*, *PC 11* and *Amarilys* look like giant metallic ghosts sunk simultaneously by some unseen invader.

The *Mizpah*, a rusting Greek luxury liner, sits upright with its bow pointing northward. On her deck, storage holds serve as hiding places for swirling masses of fish. Her structure is completely coated with encrusting sponges, waving seawhips and tiny macro-marine organisms. The canopy railings above her port and starboard decks add to her ghostly chill as sunlight filters through with its rays shooting into her belly.

At her bow, repetitive storms have ripped her metal sheeting apart. A chunk of her hull lies flat to her port bow looking like a massive, discarded banana peel. Inside her gashed face a school of grunts and snappers moves in unison out of the path of every diver who enters.

A few yards away, the *PC 11* sits broken in half, with her stern looking like an isolated barge. When the current flows, the two ships allow a diver to drift uninterrupted above their hulks for more than 100 yards. Not far from the patrol craft's stern, the freighter *Amarilys* looks like an enormous 300 foot long canoe belonging to an aquatic behemoth. Schooling fish hide from the current inside the barrier walls of her hulk.

Diving is not the only ocean activity found along the Palm Beaches. Miles of public beach, with tiny tropicals and small isolated reef patches just offshore, can be snorkeled. Along their length, pelicans and seagulls swoop overhead and dive for baitfish. The gulls come to within inches of a sunbather's fingers when offered breadcrumbs.

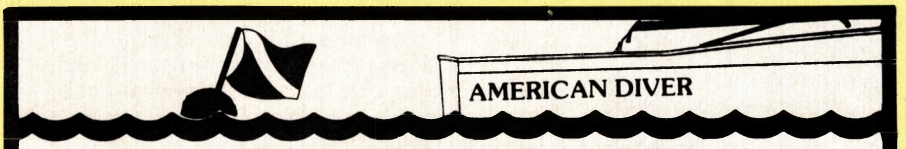
When the occasional Atlantic storm blows along the unprotected coastline, the foaming beach comes alive with enthusiastic wetsuited surfers on wildly colored boards. Since the deeper water is very near shore, the choppy waves pile up quickly, offering those sporting enough to challenge them some short, but very wild rides. On more normal days, the brightly colored sails of windsailers tack their way along portions of the shoreline.

For more leisurely pursuits, there are local sailboat charters and lake cruises on the paddlewheeler *Island Queen* which allows a closer look at some of the waterfront mansions. Fishing enthusiasts can charter one of the big game fishing boats that sail daily from several docks between Boca Raton and Riviera Beach to fish for shark, dolphin, wahoo, marlin or one of a dozen other fighters.

For sightseers and vacationers who want to mix diving with a South Florida holiday, attractions such as the 640 acre wild animal park, Lion Country Safari, are nearby. With eight miles of paved roads that wind through an African veldt, lions, rhinos, zebras, giraffes, chimpanzees and antelope roam in a natural setting.

Palm Beach County has over 70 golf courses, several major shopping malls and many excellent restaurants. The Burt Reynolds Dinner Theatre at Jupiter features internationally known stars in its after dinner productions. Disney World, Epcot Center, Sea World, Circus World, the Miami Seaquarium, Everglades National Park and other major parks and attractions are only hours north and south via the Florida turnpike.

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easy to walk for a mile and see nothing but gulls, seagrapes, wild oats and perhaps a bottle containing a friendly greeting thrown from the railing of a passing cruise ship.

In places, the highway winds along the shore and allows almost unobstructed views of waves and sand. Along these golden beaches lucky strollers have, for dozens of years, kicked pieces of history right out of the sand—gold and silver history. From the lighthouse that marks the Jupiter inlet, continuing past Vero Beach, the area is appropriately known as Florida's Treasure Coast.

Since as long as anyone local can remember, after almost every storm, people walking the beach in particular areas have found strange, irregular, silver and sometimes gold, coins. Occasionally solid gold jewelry and chains several feet in length have washed up in the foamy surf. Even gem stones have surfaced in the most unlikely places. No one knew for sure about their origin. They were simply old and Spanish. Some thought pirates may have hidden their loot along the coast. The treasure was reasoned to be a part of their booty.

In the early '60s a group of salvors and amateur archaeologists made one of the most important discoveries in the history of Florida: They found a king's treasure!

In 1715 an entire fleet of galleons was lost in a single hurricane. A royal convoy, ten shiploads of gold, silver, gems and precious trinkets being transported from the mines of Mexico to Spain, went up on the reefs. Millions, some thought perhaps billions, of dollars in treasure bound for the King of Spain's treasury lay just offshore under a few feet of perpetually moving sand. It seemed only too simple to dredge up.

The cannons and ballast stones of some of the galleons can be snorkeled over at several locations. The easiest one to reach is *El Capitana*, in the Sebastian Inlet State Recreation Area north of Vero Beach. Treasure recovered from the site is on display at the McLarty Museum inside the park.

The real Treasure Coast attractions for most divers are threefold: Enormous lobster, World War II shipwrecks and good beach diving.

The reefs along most of the coast are quite similar to those found off Palm Beach. The major exceptions are less encrusting marine life and poorer visibility.

The Gulf Stream makes a turn seaward north of Riviera Beach and the shallow water stretches much farther offshore. In addition, rivers that flow into the open ocean dump large quantities of murky freshwater. In summer the water remains relatively clear, but in winter the river water mixed with storms and the suspended sand of the shallow sea often reduce visibility to well under ten feet.

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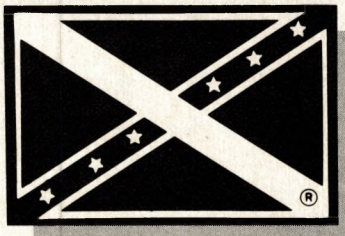
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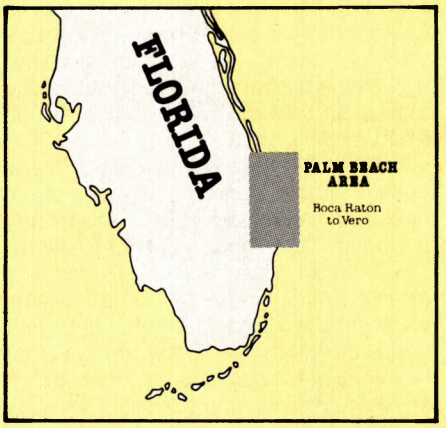
place to dive directly off the shore. Many public beaches have 10 to 20 foot coralline rock areas within easy swimming distance. In Vero, the wreck of the *Breconshire*, called the boiler wreck locally, can be seen protruding from the water just off the beach. A 200 foot ship that sank in 1894, it is covered with marine life and schooling fish in less than 20 feet of reasonably clear water.

On North Hutchinson Island, near Fort Pierce Inlet Park and two miles north at Pepper Park, 15 to 30 foot reefs can be reached right off the beach. On Hutchinson Island, between Stuart and Jupiter, numerous breaks are only 100 yards off the beach. Close to the House of Refuge, a turn-of-the-century life-saving station, the ribs of a schooner can be snorkeled. The wreck is said to have sanddollars in abundance all around.

Between Fort Pierce and Stuart, World War II came to life in one explosive week. On two consecutive nights the freighters *Amazon* and *Halsey* were torpedoed within sight of land by a skulking German U-boat. Flames lit up the shore in a deadly fireworks display. After 40 years below the waves, both hulks now lie almost completely overgrown in 100 feet of Atlantic Ocean water. Covered with thick marine carpets, deepwater big game fish have claimed them as their own.

Broken in two, the *Halsey* has several exposed internal passageways. Railings lead inside, tempting unwary divers to enter her rotting, semi-perilous remains. Near her bow a resident denizen, a ten foot hammerhead shark, has established its domain. When divers approach, it moves out over the sand, always returning when they depart.

On the outer reefs, divers converge yearly for the beginning of the state lobster season. No place on the east coast of Florida has a better reputation for super-sized crustaceans. Local dive shops sponsor annual competitions for lobsterers, some offering thousands of dollars in prizes. The winner usually has his or her catch mounted. The largest lobsters caught weigh as much as 13 pounds!



With an abundance of fish, lots of wrecks, friendly turtles, large marine animals, closeness to the "Worlds" of Florida and chance to find a bit of treasure on the beach, the area offers a lot of excitement. Over 100 miles of wild beaches or glamorous Palm Beach: The choice is yours. Since they are side-by-side, there's no reason not to enjoy both. Whether you find doubloons or not, you'll definitely find fun. And, who knows, you might find enough gold to drive home in a used, oops, pre-owned Rolls!

ADDITIONAL INFORMATION

For additional information about the Palm Beach/Treasure Coast area contact:

Palm Beach County Tourist Development Council
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For a 128 page Florida Vacation Guide, send a check for $2.50 to:

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SDM travel SECTION





THE CAYMAN ISLANDER

An Off Beach Hotel For Divers

BY BARBARA A. CURRIE

It was a simple fact: I felt at home at the Islander. At the pool bar Happy Hour that November afternoon, I was enjoying an animated exchange with some new-found dive buddies from Georgia. We compared bottom time observations from the morning's two tank dive on *Barefoot Diver*, one of Soto's fleet, and I had won a five doubloon bet from a 9:00 am prediction they'd be in full Caribbean wetsuits by the next dive. November water in Cayman is a "brisk" 78°F. "That's why there are so many *blue* chromis on Paradise Reef, right? Those indigo hamlets were once dusky damsels."

In the right surroundings, divers, feeling loose and saturated with good diving tales, are the best company in the tropics. And, these obviously were the right surroundings. Why did we all choose this 67 room hotel: one which is neither luxurious nor on Cayman's legendary Seven Mile Beach or—for that matter—on the water at all? The Cayman Islander could be any moderately-priced American travelers' motel on a main road in a resort area. It has a nice, small freshwater pool, outside snack bar and thatched roof watering hole and simply decorated, air-conditioned rooms. No frills? Make that no pretentious expenditures on frivolous details. That's what we all agreed was the real appeal of the Cayman Islander. Everything worked (including the staff members, who worked overtime to keep us happy and laughing), from the freshwater showers in the rooms to the newly-installed TVs with six channel satellite reception.

It's an easy resort to relax in, especially for divers.

What impressed us, aside from the simple efficiency of the Islander's operations, which made guests feel comfortable and welcome, regardless of how informal they wanted to be, was management's attention to recreational options. One of the unexpected surprises for Islander patrons is a pass to Cayman's largest nightclub, a new addition (summer '84) to the local entertainment scene. Within 300 yards of the hotel property is a 700 seat nightclub and an equally unexpected dining opportunity at Ribs Unlimited. That's right, a hearty U.S. style rib joint with those wonderful edibles we hate to admit we miss on small islands, including onion ring loaves.



photo/Barbara Currie



photos/Geri Murphy

The main activity for Islander guests, however, is diving. As evidence of the strong connection with Bob Soto's Diving Ltd., Cayman's largest aquatic operation, part of the main building includes a Soto's retail branch stocked with diving accessories, T-shirts, books and information

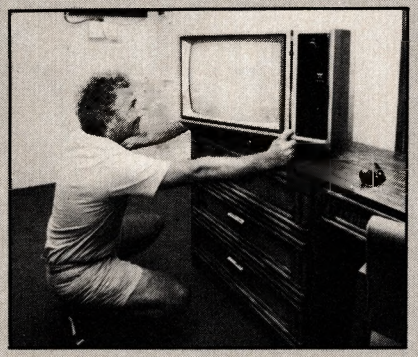
travel

about the full range of Bob Soto's Diving Ltd. services. If you weren't lucky enough to discover the incredibly economical Islander/Bob Soto's Diving Ltd. vacation packages prior to arrival, you can still salvage your vacation by inquiring about options during your stay. Certified divers can be picked up for morning two tank and afternoon one tank dives right at the hotel by the Soto's shuttle truck, which provides complimentary transportation to the point of departure for Soto's fleet.

Non-divers interested in enjoying a really memorable vacation can sign up for a scuba resort course or time permitting, a full certification course at the Soto's Scuba Centre just minutes away. Whatever you want in the way of diving, Soto's can provide—including rental gear for those who may have forgotten some unessential item such as mask, fins, regulator or BC. That's one of Cayman's greatest advantages for divers: Its dive operators, and Soto's in particular, are prepared for such predicaments and do their best to ensure no diver is going to lose a day's diving owing to a shift in winds, much less a shortage of gear.

We dove every day. Each morning (and afternoon, if we opted) the Soto's express arrived on time and we hopped into the pickup with our gear for the short ride to the Lobster Pot pier. It's obvious this operation is run by a man who understands that keeping customers waiting means risking losing them. Like the Islander, Soto's operation is geared toward providing unpretentious, no frills service. But you'll dive—that's guaranteed. And, if getting wet as often as safety and your budget permit is your priority, there is a good selection on this island.

A diver's *joie de vivre* is directly proportionate to the amount of relaxation onshore and stimulation and excitement offshore. In short: Keep it uncomplicated during dry hours and hassle-free in transit to good diving. I found all of this at the Islander and with Soto's Grand Cayman operation. My friends from Macon concurred. They told me: "We're simple people who work hard to afford a diving vacation for a week each year. Being at a resort which caters to an upper crust clientele can be really uncomfortable for us; we just want to unwind and enjoy diving, not be on guard about dressing up or making conversation. The Cayman Islander is a nice, comfortable place to rest and relax between dives and whatever else you want to do on Grand Cayman. It's a real people's place."





The Cayman Islander has 67 clean and comfortable rooms, each with a television featuring six channel satellite reception. The hotel has a freshwater pool, outdoor bar and snack bar and a nightclub where big name entertainers are a regular feature as are limbo dancing, fire eating and West Indian skits.

In the U.S., the Islander's reservations office in Hollywood, Florida simplifies vacation planning by providing toll free information about scuba packages available as well as up to date details on hotel activities and facilities. I phoned their 800 number and was told about the Bonus Scuba Package—with or without air fare on Cayman Airways—that was a winter (high) season bargain for only $659 per person, double occupancy and included round-trip air fare from Miami; accommodations with two double beds and cable TV; a welcome drink; a morning two tank dive daily; one night dive; airport transfers on Grand Cayman; and nightly admission (except during special celebrity shows) to the Cayman Islander Night Club. Unlimited offshore diving was also part of this package, but the agent said that since the hotel was not on the beach, I would, in fact, have to make arrangements with Bob Soto's. I appreciated the tip.

When you arrive at the Cayman Islander, you quickly realize informal doesn't mean inefficient. The attitude of the front desk staff seemed to be in tune with a traveling diver's need to get into his/her room, get organized and begin relaxing immediately.

You should notice, however, that all bar and snack bar payments are in the local currency of doubloons, purchased at the front desk for use on the property. Buying a pocketful early will eliminate inconvenience later.

The rooms at the Islander may come as a surprise. They are some of the cleanest and most comfortable on the island—despite the fact that the trade press would not rate this a deluxe resort. And, this is the *only* hotel with TV in each room and one of few Caribbean hotels with cable TV.

You can't play tennis at the Islander, but the front desk can arrange anything you want in the way of recreation, including island tours, deepsea fishing, shopping and other activities. Car rentals are easily arranged with local firms including Cico/Avis, Hertz and National for those who want flexible transportation.

Dining at the Islander is simple: The snack bar is open from 7:00 am until midnight daily, featuring full breakfast each morning and hamburgers and other light fare throughout the day. However, right next to the hotel is an excellent Chinese restaurant, the Pagoda and other eateries are within walking or taxi distance. The new Ribs Unlimited at the Cayman Islander Nightclub complex should be included in your planned extra curricular expenses at least once.

One of the most unexpected "perks" of a stay at the Islander is access to its nightclub. Don't shrug off this experience: As a seasoned Caribbean critic of amateur cabarets, I can

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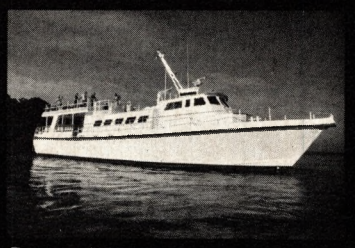
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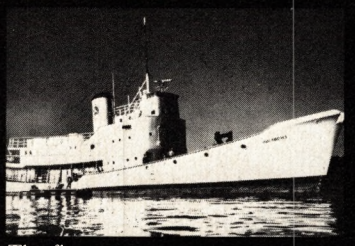
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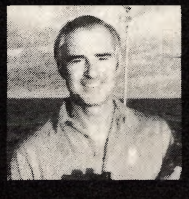


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CAYMAN ISLANDER

tell you, the Islander's stage show and its regular band are exceptional. Chuck and Barrie and Odyssey are young, talented and versatile performers who play music for a variety of tastes and age groups. The team of Caribbean Cabaret performers, hosted by Caymanian Edward Soloman, provides a lively and very professional visual menu of limbo, fire eating, glass dancing and West Indian skits—performed by a young and talented Caymanian cast. Don't miss it. Big name entertainment from the U.S. is a regular feature at the nightclub—since the facility opened last summer, the Bellamy Brothers, Freddie Fender and the Nitty Gritty Dirt Band have appeared, to name a few.

Guests at the Islander can easily stay active from dawn until 2:00 am if they have the energy and interest.

Drawbacks to staying at the Islander? As the reservations agent will tell you, it's not on the beach. However, the beach is an easy walk across West Bay Road and since most divers are not sun bums other than during surface intervals on dive boats, that doesn't present a problem. If you want beach, it's nearby—but frankly, the Islander's non-beachfront rates (also the lowest on the island) make the few hundred yards' walk a reasonable trade-off for low prices and efficient service.

If you're not the sociable type, go someplace else. Islander guests like people—so does the staff. So do I and that's why I like this resort.

For information on Cayman Islander Bonus Scuba Packages with Bob Soto's Diving Ltd. contact (800) 327-3835; in Broward County, Florida (305) 987-8880 or write: 5920 Rodman St., Hollywood, Florida 33023.

ANSE CHASTANET STAFF

Anse Chastanet Hotel (St. Lucia) recently increased its scuba staff to nine instructors and divemasters in order to offer a more varied and interesting dive program. With the new photo lab now fully operational, two and three day photo courses, under the guidance of Wayne Brown, are being offered. Overnight E-6 processing is available along with camera rentals, maintenance and service.

A new, 34 foot tri-hull flattop dive boat, capable of carrying 24 divers, has been purchased. Powered by twin 65 hp OMC engines, it will greatly improve the efficiency of the dive operation. Two power boats provide fast transportation to out of the way dive sites and a wreck on the southern tip of the island. This latter, a 170 foot freighter, was donated by the government of St. Lucia, for sport divers and lies in 90 feet of water.

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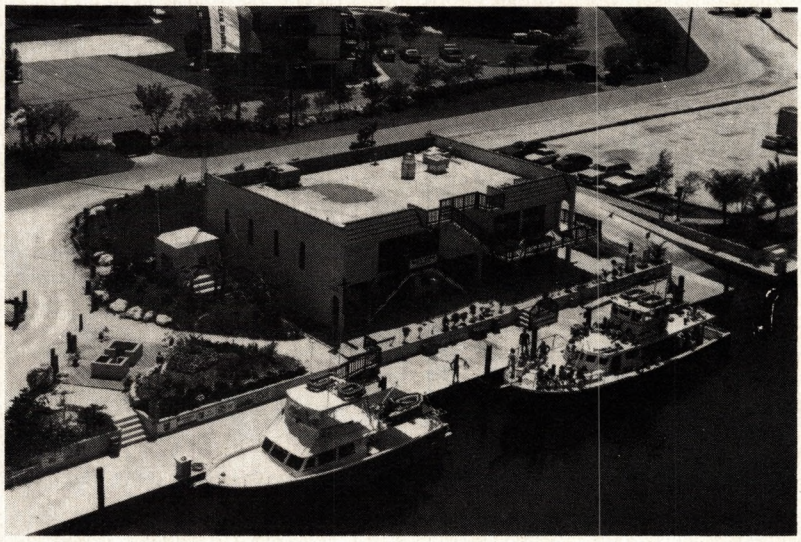
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NIGHT DIVE

BY RICK BROWN

The bow lights of the dive boat lit the bottom of the ocean, making the glass-like sea look no more than five feet deep. I looked at the horizon, straining my eyes to see the lights on the shore that would never appear. The moon was saucer full in the sky. So, this was the ocean at night!

Mark, my business partner, closest friend and diving buddy, was busy preparing to make his first ocean dive at night. Trying to be nonchalant I fidgeted with the mixture of metal, rubber and plastic that would introduce me to a world I had never known to exist off a TV screen. Captain Bill assembled the 20 divers on the rear deck to go over a few rules and I mean a few: Dive safely, stay with your buddy, don't grab any lobsters (out of season) and be back on deck with no less than 500 psi.

I was kind of glad the captain had brought us to Molasses Reef. We had dived it that morning and I was anxious to see how different it would look under these new conditions.

Throwing caution to the winds I did my best Mike Nelson backward entry into Davy Jones locker. Soon Mark was with me and we began our descent. I could see the glow of every diver's light stick fastened to their tank as they hit the water. As a matter of fact, off Key Largo you could see those green markers 100 feet or so away.

To my surprise the colors at night were so much more vivid owing to the increased intensity of our handheld lights. Then, in shock, I saw Bill Goode, an old friend from Tennessee, grab and keep a lobster. You can't do that, Bill. I grabbed his hand and shook my head violently. He gave me that well known sign indicated by a digit in the middle of one's hand. I found out later that it was a Spanish lobster and it was OK to harvest anytime, a fact I filed away for future reference. What's a boy from Tennessee (me) know about lobster anyway!

The first tank was gone in no time and we headed back for the boat. When I looked up it was hard to distinguish between the moon and the lights on deck. My legs were cramping from so much diving in one day and as I sat on the bottom pulling my fin tip I noticed that Mark was doing the same. I didn't know it at the time, but Mark was in real pain.

On the boat for fresh tanks, Mark said his legs hurt too bad to go back for the second dive. Bill was okay and anxious to hit it again.

Bill and I agreed to go after a few more Spanish lobsters if we could find some in single family dwellings. (Mark had found one living with a moray on the last dive.)

As Bill went over a coral ridge I killed my light, to avoid distracting his lobster and I realized that I could see forever with no light at all. When Bill came over the coral head I reached over and shut off his light. It was unbelievable. At a 20-90 foot distance I could read the writing on my buddy's gear.

Swimming with no lights at all we found a sand canyon and sat down at the bottom. In the next hour we were visited by two of the biggest manta rays I ever saw, a huge school of barracuda, a skate, millions of tropical fish and a turtle—all seen clearly with no light but the full moon.

Bill gave me the low air sign and I reluctantly agreed to leave. Since we had moved so little we used up our air slower than everyone else and were the last two to return to the boat.

I may never find that perfect night again with flat seas, full moon and good friends, but I promise you this: One night this summer on a full moon, with my best friend (my wife, now a certified diver) I'll be looking for it. Bet ya I find it!

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NAUI DIVES CAYMAN

BY CAROL WINKER



photo Lyn Nelson

When 306 NAUI instructors, assistant instructors and divemasters assembled last October for the 15th annual International Conference of Underwater Educators, they became the largest organized group ever to descend upon the Caribbean island of Grand Cayman.

The choice of location represented a departure from tradition for NAUI coordinators, who had previously chosen U.S. cities with hotels large enough to cater to the 600-800 people attracted each year to the learning opportunity. (Toronto, Canada was the one earlier exception.) The choice of location was also a challenge for the islanders involved in diving and supportive operations. The largest hotel on the island has just 215 rooms and none has facilities for more than three conferences at a time. Moreover, accommodating 306 people at 20 different resorts as many as 40 miles apart could have been a logistical nightmare, especially when compounded by scheduling some 50 seminars in a dozen different places.

The success of the venture was partially assessed when a government official presented Ron and Sue with the Cayman Islands' prestigious Sir Turtle award for their contribution to the local tourism industry and when Ron presented an award thanking the people of the islands for their support of IQ-15.

But the assessment by participants must carry the most weight: They are the ones who budgeted a week of their valuable time, instead of the usual three days and spent a significant amount of money for what was promised to be a unique diving experience. How well did it live up to its advance billing? Were the opportunities to dive in conjunction with seminars as enticing as planners hoped?

George Foose and Nils Gunderson came to NAUI Dives Cayman from the Kolsas Dykkerclubb in Norway. It cost each member of the group almost $3,000 to make the trip. They attended an underwater photography course five mornings; a day long Divers Alert Network (DAN) workshop; a conference on the Interna-

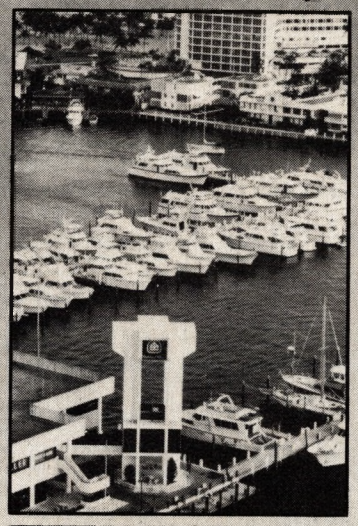
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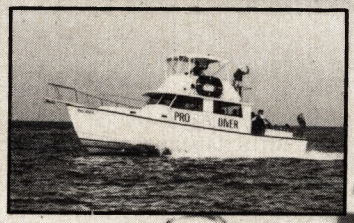


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SOTO'S

On December 1, Ron Kipp, president of Bob Soto's Diving Ltd., became president of and chief investor in Ron Kipp's Cayman Diving Lodge on Grand Cayman.

Kipp's partners bring unique qualifications to the venture. Elita Soto founded the lodge with her former husband Bob in 1971, making it the first facility in the Caribbean devoted exclusively to divers. His



third partner, Pat Scharr, is general manager. She was a major force in the development of the company's Scuba Centre headquarters for shore diving and training. She is a member of the NAUI board of directors.

Immediately after the purchase of the lodge was completed, Bob Soto's Diving manager of operations, Al Shaw, was seconded to assist with dive shop organization and general renovations. Both senior divemasters were on the Bob Soto's Diving staff.

The lodge reopened December 15 after extensive improvements in the lobby, bar and restaurant areas. The rooms will accommodate 38 guests but bar and dining facilities have been enlarged to attract island residents, giving visitors greater opportunity to meet local folks.

Previous owner Gerry Hytha, who will be conducting six underwater photography courses at the lodge in 1985, is currently making a video tape to help promote Bob Soto's Diving and Ron Kipp's Cayman Diving Lodge. It will be hosted by Barefoot Man, George Nowak.

Eight day/seven night packages for the lodge include accommodations, three meals per day, one two tank dive per day, unlimited shore diving (island wide), transfers, taxes and gratuities. In addition, one day per week guests will be transported to the west coast for a wall dive, with the second dive at the wreck of either the *Oro Verde* or the *Balboa*.

FISHEYE PROGRAM

Fisheye Photo of Grand Cayman has introduced a Frequent Photographer program, developed to cut the cost of film processing for those who use Fisheyes' four and 24 hour processing services. Each roll of film developed by Fisheye will earn the customer one stamp on a spe-

cial token card. Accumulated stamps can be used to get up to five rolls of film developed free. There is no time limit on the offer and enrollment is free.

CAYMAN DIVE MEDICINE COURSE

Medical Seminars, Inc.'s annual Medicine of Diving program to Grand Cayman will be held April 20-27. The Holiday Inn of Grand Cayman has been selected as the host hotel and Ron Kipp of Bob Soto's Diving has arranged the complete scuba program for the group.

The academic program will focus on clinical applications of undersea technology and will be under the direction of Jefferson C. Davis, M.D., of the Southwest Texas Methodist Hospital in San Antonio. The faculty will include Joseph Farmer, M.D. of the Duke University Medical Center, Thomas K. Hunt, M.D. of the University of California Medical Center and J. Morgan Wells, Ph.D., director of the NOAA Diving Office in Maryland. The program has been approved by the AMA through the Undersea Medical Society for 25 Category I credits.

KEYS SEA CENTER

The diving services portion of the Keys Sea Center marine complex on Big Pine Key has recently been acquired by Capt. Don Joyner, former store manager and charter captain. The store, now known as the Sea Center Dive Shop, is a full service PADI facility with sales, rentals, instruction, repair and daily charters to the Looe Key Marine Sanctuary and other reefs. The store also offers diving/lodging packages utilizing their four bedroom waterfront home on Big Pine Key.

Extensive renovation and remodeling has been planned and work begun on the store facility, more convenient air fill stations and improved charter boat dockage at the rear of the store building. The staff has also been increased to better handle the expanded store operations.

ALL SPORTS CENTERS

All Sports Centers of St. Thomas has put together dive packages with Anchorage Beach Villas. The new dive operation is a full PADI training facility with all rental gear available.

George Alexander and Mel Luff are the two principle owners and have many years of experience in Virgin Islands waters. In addition to the diving packages, All Sports Centers provides other watersports activities such as day sails and sailboarding.

WODARSKI/AKUMAL

Lin Wodarski has completed her course as a PADI open water scuba instructor and will offer basic, open water, advanced, rescue, divemaster and assistant instructor training in English and Spanish for Excursiones Akumal, Akumal, Quintana Roo, Mexico.

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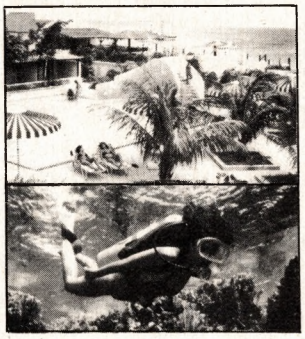
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CHILI COOK-OFF

The Pasadena Underwater Club of Texas will sponsor its third annual Chili Cook-Off on March 23 to benefit DAN (Divers Alert Network). Last year's event raised $1,316.

This year's event will include door prizes. For information contact Pasadena Underwater Club, 1727 Federal Road, Houston, Texas 77015.

CRYSTAL LODGE

The Crystal Lodge Resort Motel and full service dive shop in Crystal River, Florida has opened ten more rooms and added a new solar heated swimming pool with bar. The dive shop also provides a pick-up service (with charge) for groups from airports or railway stations.

YACHTSMAN'S GUIDE

The 1985 edition of the *Yachtsman's Guide to the Bahamas* is available at marine and book stores. Updated in every detail, the guide's '85 edition contains all information pertinent to cruising and flying throughout the islands including: tide tables, VHF coverage, airport facilities, diving facilities index, complete medical section and galley guide. It is available through Tropic Isle Publishers, Inc., P.O. Box 611141, North Miami, FL 33261-1141.

SCUBALAB-PROVO

Scubalab-Provo, a division of Research Submersibles Ltd., will soon open at Club Med Turkoise in the Turks and Caicos. Scubalab-Provo will be a PADI resort and will offer resort, basic, open water and advanced open water certifications. Night dives and underwater photography courses will also be available. Dives will mostly be from 47 foot boats from either the Club Med facility or Scubalab's base at the Leeward Passage Marina on the eastern end of Provo. There will be a wide range of rental equipment, compressors, a retail shop, photographic center and a two man recompression chamber.

QUIESCENCE COURSES

Quiescence Diving Services of Key Largo, Florida is offering underwater photography instruction in two formats. Photographers may enroll in a full certification PADI specialist course or a one day introductory course which can be applied to future certification requirements. Jeri Clark, a PADI specialty instructor in underwater photography, will conduct the courses.

GOLD/STDC

Peter Gold, a PADI International College graduate, has joined the St. Thomas Diving Club as resident manager of Villa Olga. An open water certified diver since 1976, Gold has an extensive background in diving and resort dive operations. As resident manager, he will be responsible for the day to day operations of the 12 room dive resort and the dive center on the property.

The St. Thomas Diving Club, with headquarters at Villa Olga, is the largest dive operation in St. Thomas with centers also at Bolongo Bay Beach and Tennis Club, Limetree Beach Hotel, Pt. Pleasant and the new Virgin Grand.

SPANISH COVE

Spanish Cove resort, on Grand Cayman Island, has recently added the 38 foot *Spanish Diver* to its growing fleet of dive boats. *Spanish Diver* is equipped to handle 24 divers comfortably and features a freshwater shower, camera work station, large sundeck and stereo music. This new addition brings the total to six dive boats—four V-hulls and two flattops—operating out of Spanish Cove on the North Wall and South Cove on the west.

COCO VIEW LIVE-ABOARD

Reef Runner, a compressor-equipped, 43 foot power/sail dive boat, has recently been delivered to CoCo View Resort on Roatan, Honduras Bay Islands. The Coast Guard documented vessel's custom teak interior offers air-conditioned staterooms for up to eight divers, saloon, honor bar, ample storage and electric galley and hot water system. *Reef Runner's* equipment includes an onboard compressor, 110 volt generator, dive platform with boarding ladder, 24 aluminum 80 cfm tanks and dory with outboard motor. Charters include crew with divemaster, unlimited diving, all meals and a choice of itineraries among the unspoiled islands of Roatan, Guanaja, Utila, Cayos Cochinos, Barbareta, Pigeon Cays, Cayos Banks and Helene.

PORT LARGO RESORT

Port Largo Resort, Key Largo Florida, is now offering rental boats for diving in addition to regular dive packages. The boats are 25 foot Wellcrafts especially equipped with tank racks, dive platform, VHF radio, cassette stereo, depth sounder, convertible top and a roomy cabin with head and galley. Each is powered with a 155 hp Johnson outboard. The boats, owned and maintained by Club Nautico, are in Port Largo's Yacht Basin and offer divers the opportunity to explore John Pennekamp Coral Reef State Park on their own.



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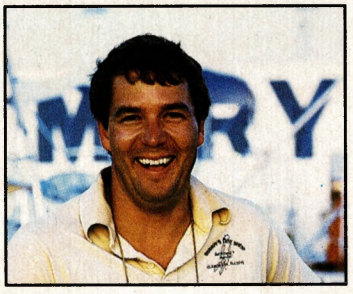
Photos/Stephen Frink

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FLORIDA KEYS
Scuba Safari







TEXT AND PHOTOGRAPHY BY STEPHEN FRINK

The geography of the Florida Keys, has to a great extent, influenced the operation of the dive businesses there. The Keys are blessed with a magnificent fringing reef structure four to six miles offshore. This makes shore diving impractical and gives incentive to one of the world's finest fleets of dive boats. Most of these operate half-day excursions featuring two dives at two separate locations. While this may be the most practical system for the greatest number of divers, there are a significant number of discriminating consumers looking for something a little different. It is for this group that Buddy Brown of Buddy's Dive Shop created the Scuba Safari.

The concept of the Scuba Safari is not revolutionary. Rather than a half-day trip, Buddy offers a full day dive adventure with a maximum of four tanks at four locations. What is unique is that the Scuba Safari is structured more along the line of a party for friends than a business among strangers. The program is the culmination of several years' planning, evolving from the premise that most Keys divers are on vacation and would welcome the opportunity to maximize their available dive time in a relaxed atmosphere.

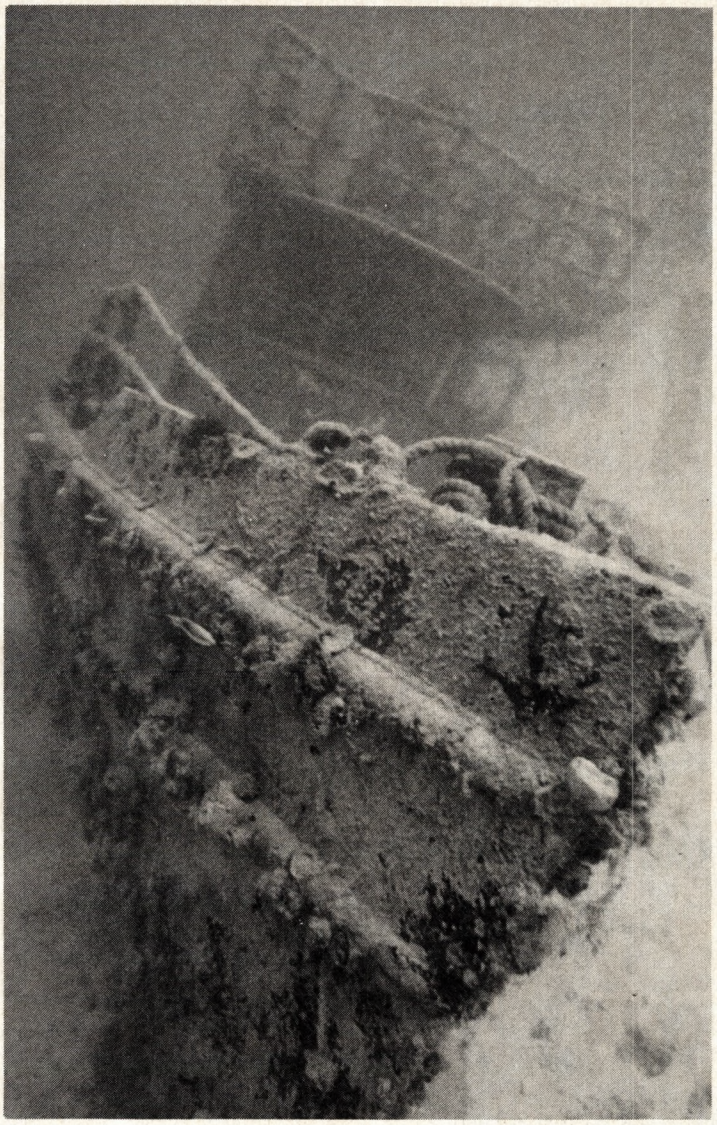
Once committed to the program, Buddy shopped around for the most appropriate boat and came up with a beautifully functional 40 foot commercial work boat (Lindsay). Powered by twin diesels it cruises at 16 knots and provides ample deck space. The *Scuba Safari* is U.S.

Left: Roger Sherman and Cindy Gray test the Hypertech underwater video system at The Gully. Lower left: Queen angelfish; Buddy Brown of Buddy's Dive Shop.

Coast Guard certified for 40 passengers, but only 20 are taken on all-day excursions to maximize personal comfort. The boat can store 100 scuba cylinders. The walk-through transom and spacious dive platform make getting in and out of the water effortless.

The reefs off Islamorada are also ideally suited to the Scuba Safari program. Not only is there a tremendous area of coral reef to explore, but there is great variety of depth and contour. By staying out at sea all day, the range of potential dive sites is extended, especially between Islamorada and Marathon, in areas too far from either base of operation to be practical on a half day charter. As a result the Scuba Safari is constantly discovering new dive sites and using Loran coordinates to return to the best of them.

The day usually begins with a 9:00 am departure for the first and deepest dive of the day. This is likely to be either the





Above: Janette Weeks in the wheelhouse of the Cannabis Cruiser. Left: The Cannabis Cruiser sank with a load of marijuana aboard. Below: The dive boat *Scuba Safari.*



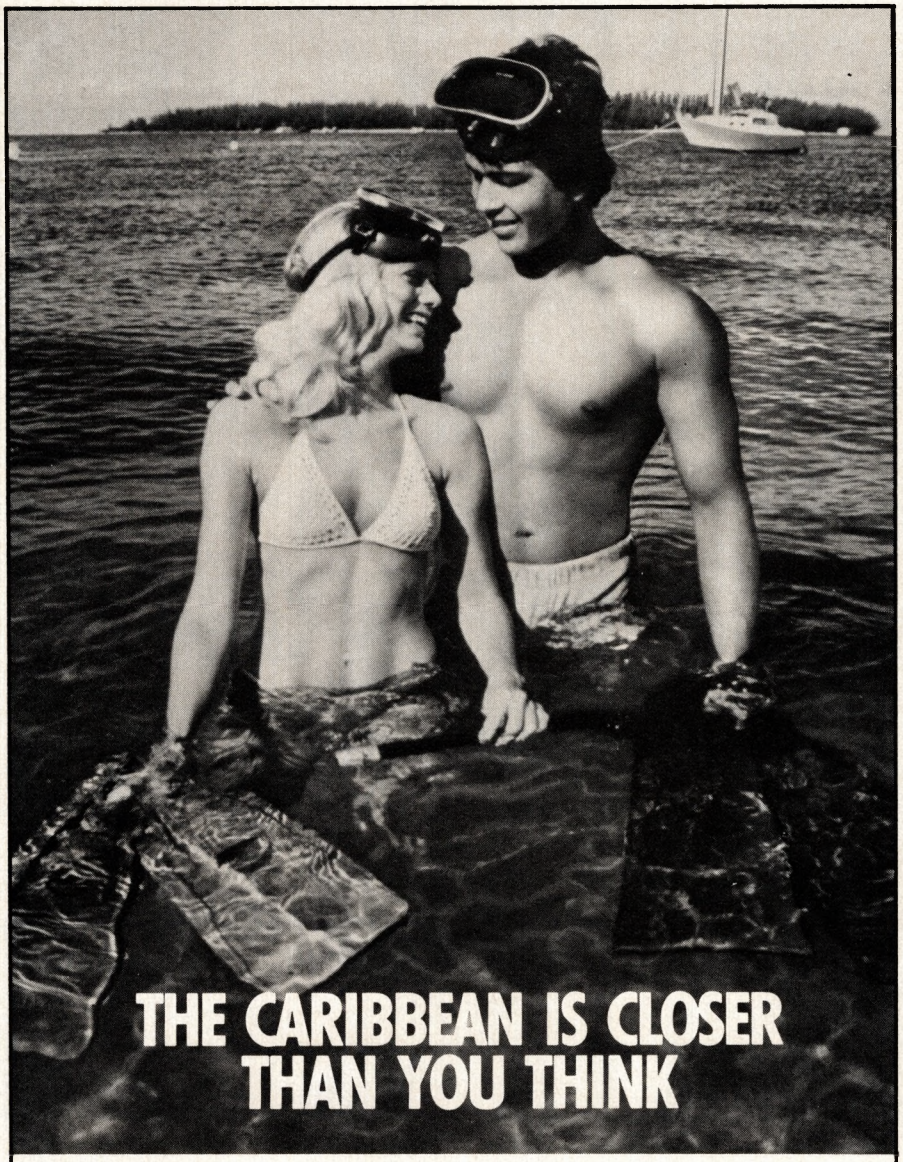
wreck of the Cannabis Cruiser or Three Peaks. The Cannabis Cruiser is a trawler that was used to transport marijuana. It was scuttled intentionally with bales of pot still aboard. It sits upright on a bright sand bottom at 100 feet and attracts all manner of fish and invertebrate life. Three Peaks is a collection of high profile coral heads in 60 to 90 feet of water. The area is best known for its prolific marine life.

There are appetizers awaiting the divers following the first dive—fresh fruit, cheese, sausage and soft drinks—and this seems to set a social tone where the divers begin to get to know the crew and each other. The whole atmosphere is rather laid back, yet quite efficient.

The second dive will be to one of the several medium depth reefs in the area such as Caloosa Patch, Shark Reef or Tennessee Patch. The dive profiles are safe and conservative, monitored both by the tables and the Edge® decompression meter. Underwater photography is a popular activity in Islamorada and with the increasing interest in underwater video, the Hypertech underwater video system is often included in the Scuba Safari. Spearfishing is another passion for many guests. Fresh fish and lobster are common and welcome additions to the lunch served following the second dive. Then a charcoal grill is set up and the typical lunch will include several varieties of fresh fish, lobster and conch in season, fruit, chips and cheeses. By lunch time there seems to be a definite difference in attitude on the safari as compared to the half day trip. With only a half day there is hardly enough time to become acquainted; with a full day on a 40 foot boat it is almost hard to avoid it. I suppose this can be good or bad, depending on the group, but in my experience the safari definitely had a friendly atmosphere.

The third and fourth dives of the day will be in relatively shallow water, 30 feet or so, and may include dive sites such as the Gully, Alligator Reef, the Shrimp Wreck or any number of other fine, shallow reefs. Most of these areas will be characterized by elkhorn, brain, star and occasionally pillar corals, with large schools of grunts, porkfish and snapper. Tropicals such as angelfish, grouper, hogfish, barracuda, spotted drum and many others are common and abundant. Visibility will range from 30 to 80 feet, with 40 to 50 feet a realistic expectation most days. The water temperatures throughout the Keys will range from 68°F in winter to the high 80s in the summer. The Scuba Safari is "weather dependent" since rough sea conditions would make it uncomfortable to cook onboard.

For further information on the Scuba Safari program, please contact Buddy's Dive Shop, P.O. Box 409, Islamorada, FL 33036 or phone (305) 664-4707.



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Evecar Travel, in conjunction with Travel Impressions, is offering weekly, back-to-back charter flights into Bonaire, Netherlands Antilles. Packages include accommodations, tax, air/land transfers, meals and unlimited diving. The Flamingo Beach, Bonaire Beach and Habitat Hotels are available, as are the Bachelor Beach and Bonaire Beach Bungalows.

The charters will utilize ALM DC 9-80 Super Jets flying non-stop to Curacao with an immediate connection via ALM Twin Otter for the 20 minute hop to Bonaire. For information telephone, collect, (212) 354-8303.

Additionally, International Weekends has inaugurated a series of Tuesday non-stop charters to Bonaire utilizing New York, Boston and Chicago as points of departure. Packages include air/land transfers for a seven night stay, double occupancy at the newly-renovated Bonaire Beach Hotel. For information call (800) 468-5000.

Trans National Travel has scheduled weekly charter trips to the Flamingo Beach Hotel. Flights will depart from Boston to Bonaire via Aruba, with immediate connections on ALM Antillean Airlines to Bonaire; telephone (800) 262-0123.

Sampson Tours of Southfield, Michigan will offer weekly charters on Fridays departing from Detroit, via Aruba, with connecting flights to Bonaire on ALM Antillean Airlines. Packages at the Flamingo Beach Hotel include air/land transfers; telephone (800) 521-8257; ((800) 521-4767 in Michigan).

Other charters from Philadelphia, Baltimore and Washington are being discussed, but arrangements have not yet been completed. The charters are in addition to daily scheduled service from New York via American Airlines to Aruba and Curacao with ALM connections. From Miami, ALM has Saturday and Sunday non-stop flights to Bonaire in addition to daily flights. Eastern Airlines also services the Miami-Aruba/Curacao route. Packages are available through major tour operators.

Bonaire hotels have made special improvements for the coming season: The Bonaire Beach Hotel has been refurbished under the aegis of Caledonian Hotel Management Ltd., while the Flamingo Beach Hotel has added a barefoot casino. Habitat has made many improvements and the island apartments have joined together for representation in the United States.

For further information contact the Bonaire Tourist Office, 1466 Broadway, Suite 903, New York, NY 10036; telephone (212) 869-2004.

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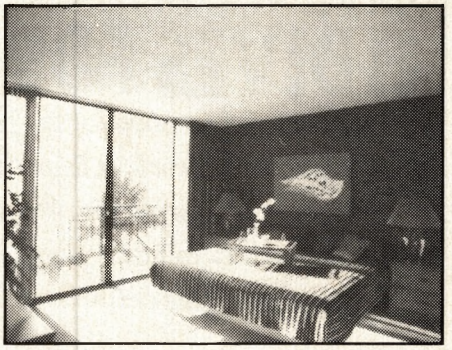
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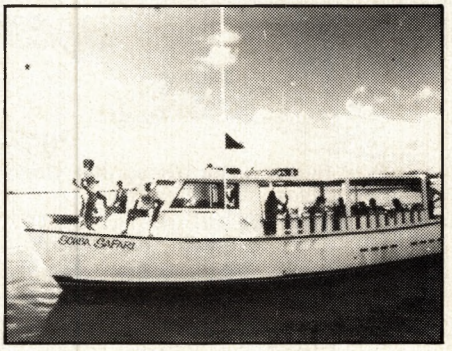
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PHOTO ROATAN EXPANDS

Photo Roatan, at Anthony's Key Resort, under the direction of resident photo pro Chaz Kafer, has recently expanded its services. It has been authorized to repair Ikelite products and Helix Aqua-Flash strobes. The addition of new darkroom equipment now allows for duplicates of your favorite slides or Cibachrome prints.

Photo Roatan offers one, two and three day U/W photo courses; a full line of rentals; and same day E-6 film processing.

SEA SAFARIS/RED SEA

Sea Safaris Travel, Inc. is offering departure dates for 1985 aboard the *Lady Jenny* boats. *Lady Jenny III* is a twin engine motor yacht accommodating individuals or small groups of up to 10. The *Lady Jenny V* can comfortably handle as many as 20. Both boats ply the waters of the Red Sea.

Dates are as follows: *Lady Jenny III*—March 21-28, May 24-31; *Lady Jenny V*—April 12-22, June 8-18.

LITTLE CAYMAN SEMINAR

Little Cayman's first undersea photo seminar will be held May 6-12 at the Southern Cross Club and will be conducted by island resident Nancy Sefton. Titled Reef Life Appreciation and Photography, the seminar attempts to combine two aspects of diving enjoyment: marine life identification and photography.

Divers will gain new insights into the lives and behavior patterns of reef creatures, with an eye toward capturing them more effectively on film. The course includes nightly slide-discussion workshops, two dives daily on famous Bloody Bay Wall, all meals and double occupancy accommodations.

Additional details may be obtained from Nancy Sefton on Little Cayman, BWI, via air mail.

SCUBA SAFARI

Grand Cayman has a small new diving operation, Scuba Safari. Owned and operated by Jeff Kingstad, a PADI open water instructor and Rene Melkner, a NAUI assistant instructor, Scuba Safari visits sites around the Cayman Islands. Twelve new Tekna U/W propulsion vehicles extend a diver's range 10 times farther while cutting air consumption 50 percent.

Up to six divers can visit any of Cayman's sheer, mile deep walls beginning as shallow as 30 feet.

Introductions to scuba diving, night diving, open water check-outs, experienced diver certifications and "forgot my C-card" check-outs will also be available.

Private guest homes are available at

package rates as well as a half price five year timeshare offer to dive shops, clubs and corporations. Call (809) 949-3742 for further information or write: Jeff Kingstad, P.O. Box 2029, Grand Cayman, B.W.I. or Rene Melkner, P.O. Box 2106, Grand Cayman, B.W.I.

TROPIC BIRD

The *Tropic Bird* has recently expanded the number of permanent mooring sites within the British Virgin Islands in an effort to protect the ecological balance in the surrounding seas.

Tropic Bird captain, Mike Bloss, indicated he is following the lead of several area seamen in a non-governmental voluntary program to protect the underwater landscape. He plans to encourage area dive operators to participate.

The *Tropic Bird* is responsible for initiating the project and has five permanent mooring sites in place.

CAYMAN AGGRESSOR

The 90 foot *Cayman Aggressor* is offering one week charters to the reefs around the Cayman Islands.

The *Cayman Aggressor*, a completely renovated, offshore oilrig crew boat, has seven, two and three berth cabins. Each guest has his or her own dive locker on the main deck and tanks are provided.



Camera equipment can be rented and there is a darkroom for film processing.

The top deck has a sunbathing area, a barbecue and bar with a large refrigerator. The ship has its own desalination plant. In addition to the captain and hostess, the *Aggressor* has a Caymanian crew of two.

When the guests aren't underwater, there's a sailboard, sailboat, library and video center with up-to-date films.

MARTIN/DIVI

Diane Martin has been promoted to director of public relations for Divi Hotels. She became director of sales and marketing for Divi's Flamingo Beach Hotel on the island of Bonaire in September of 1978, a position which expanded when Divi acquired the Tiara Beach Hotel on Cayman Brac. Her newly created position will include not only public relations for these two hotels, but the corporation's rapidly growing list of hotels, restaurants and casinos throughout the Caribbean.

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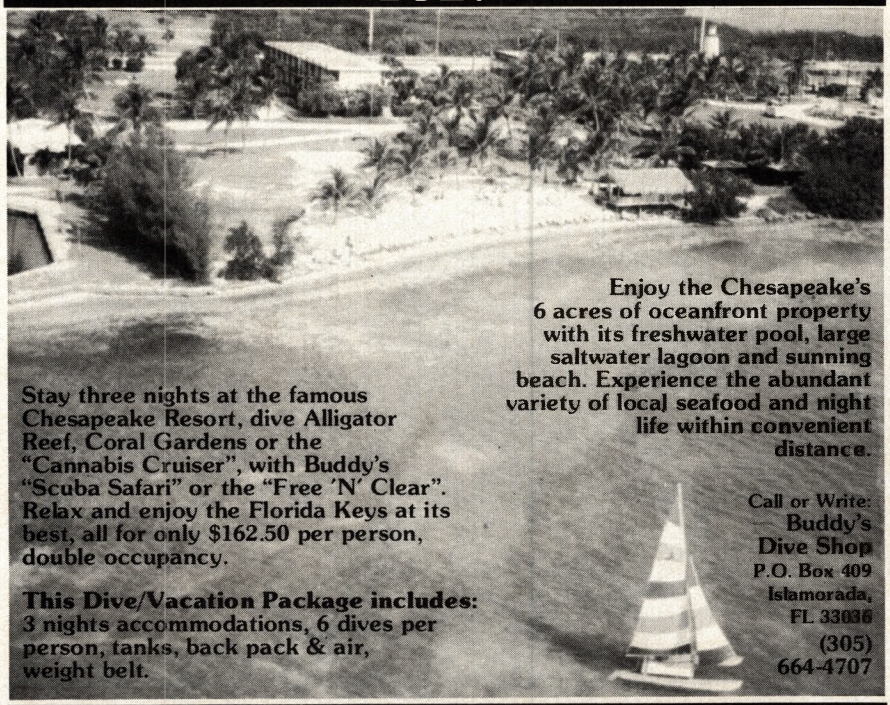
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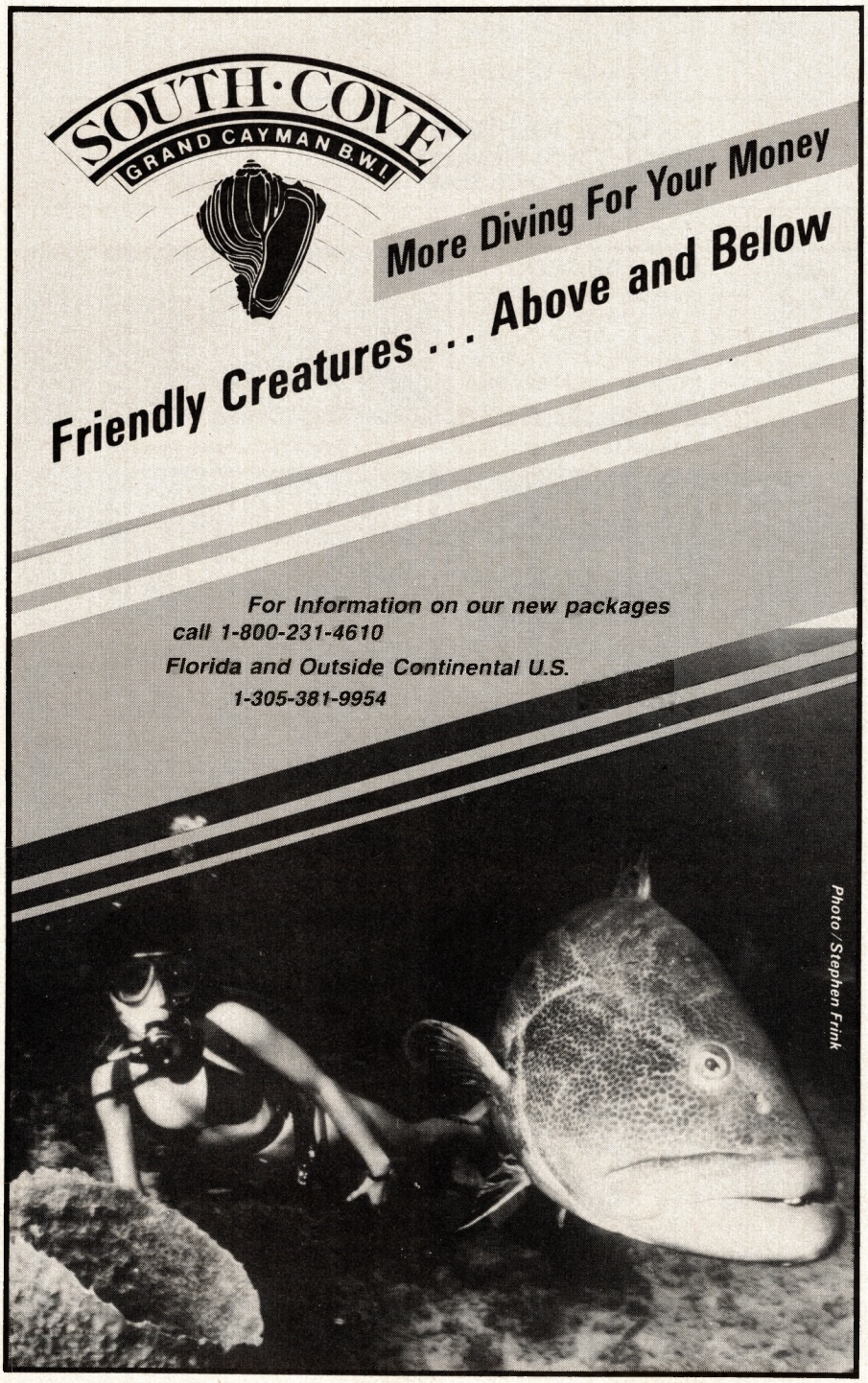
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HELP SAVE JAMAICA REEFS

BY HARRY McCARTY, Ph.D.

Jamaica can be a vacation paradise for divers and nondivers alike. Lush tropical foliage, rugged landscapes and blue Caribbean waters are memories that will last through many cold winter nights back at home. Diving in Jamaica is a marvelous experience. The reefs here are some of the finest in the Caribbean and the number of well established, competent dive operators makes it easy to venture into Jamaica's underwater wonderland.

The one thing divers will not remember about Jamaica is the fish population. Despite the large number of reefs around the island, there are relatively few fish to be seen and those that one does see are quite small. The problem is one of overfishing. For many Jamaicans, the only chance of survival in the country's fragile economy is through fishing. Early each morning, Jamaican men row their heavy wooden boats offshore to set nets or fish traps in the clear blue water. To divers ashore or in boats, it appears an idyllic existence, until one sees the harvest that these men reap. The fish are small and few in number. For the diver on the reef, the situation is similar. There are few big fish to be seen or photographed.

A partial solution to this problem would be the development of marine sanctuaries along the Jamaican coast. By setting aside a number of small tracts where fishing would be prohibited, the effects of overfishing could be lessened. Fish living in these safe havens could grow larger and more of them would reach sexual maturity. When they spawn, some of their offspring would remain in the sanctuary but many would move to nearby fishing grounds, eventually finding their way to Jamaican tables.

One such refuge has been established by a local dive operator and the results are startling. Along a stretch of coast perhaps a half mile long, the fish are conspicuous residents. There are a number of species present, in sizes ranging up to a foot or more. Other nearby reefs are deserts in comparison. Unfortunately, this success would be difficult to duplicate at present, as it was accomplished by the sheer determination of one dive operator, who reached an "understanding" with local fisherman after several years' work.

Divers, whether they have been to Jamaica yet or not, can help remedy this situation. The Jamaican government has been asked on several occasions to enact a marine sanctuary program. To date, they have not been convinced of the need or the acceptance. Their Jamaican constituency consists of many fisherman and few dive operators. If divers and oth-

er interested individuals would take the time to write to those in power, perhaps they will see the light.

Much of Jamaica's economy is built on tourism, so the best avenue for change is probably through the Ministry of Tourism. The address is: Dr. Marco Brown, Ministry of Tourism, 2 National Hero Circle, Kingston, 4 Jamaica. Letters of support should mention the marine sanctuary program by name. If you would not object to a small fee collected by the dive operators to support the establishment and enforcement of the program, please indicate that as well. If you have visited Jamaica previously or plan to do so, mention that too. The small effort on your part can benefit the diving community as a whole, as well as the Jamaicans.

WAVE MAKER

Mike and Linda Kohut, publishers of The Diving Times and owners of Recreational Diving Systems in Royal Oak, Michigan, have been selected as winners in the Don Foster's Dive Grand Cayman, Ltd. Name our Boat Contest. The boat, a 34 foot V-hull, will be christened *Wave Maker*, the name submitted by the Kohuts during a previous visit to Grand Cayman. The Kohuts will receive a seven night dive package with Don Foster's, including accommodations at the Royal Palms Hotel and champagne reception.

Wave Maker is the newest addition to the Don Foster's fleet and will be used primarily as a dive boat allowing access to Grand Cayman's finest dive sites and the North Wall. She will also be available for half and full day fishing trips and tours around the island as well as private charters.

INSTITUTE OF DIVING

The Institute of Diving is a non profit organization for the advancement of professional, literary and scientific knowledge related to human-oriented activity underwater. Membership consists of commercial, military and sport divers as well as other individuals, organizations, corporations, and/or groups interested in diving or diving-related activities. Members pay annual dues to support the Institute of Diving, a diving museum and library and the periodic publication of a newsletter and journal. Incorporated under the laws of the State of Florida, it is both a federal and state tax exempt corporation. The institute presently has more than 900 members and is international in scope.

The diving museum and library are in a prime waterfront facility at the Panama City Marina, number 2 Harrison Ave., Panama City, Florida. Indoor displays feature the beginning of man's venture into the sea right up to today's latest diving equipment. Many undersea vehicles and structures, including Sea Lab, are on display.

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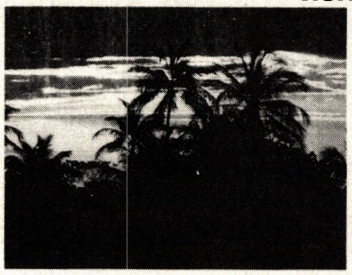
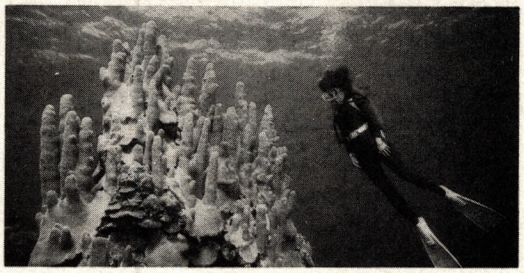
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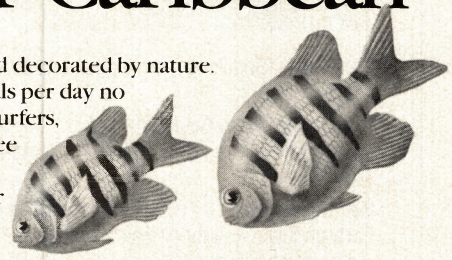
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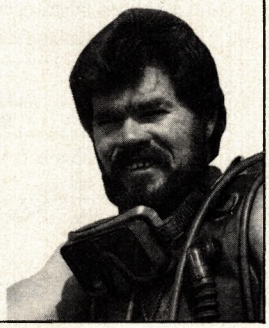
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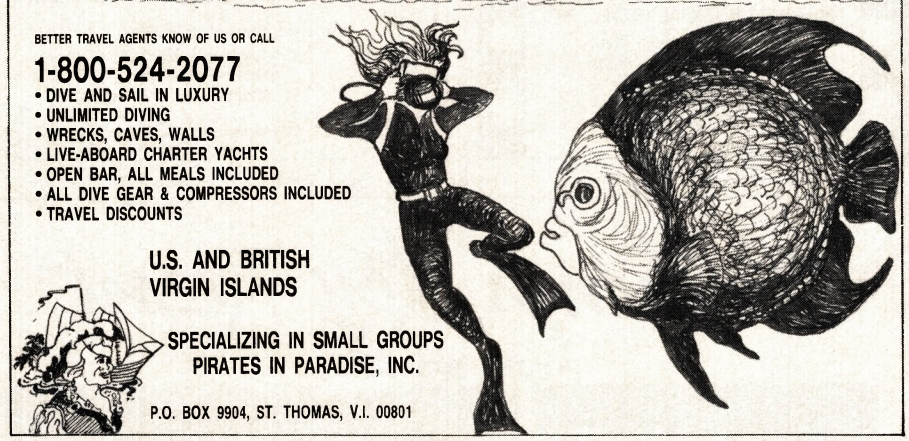
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Rx FOR DIVERS

BY FRED BOVE, M.D., PH.D.

DIZZINESS

Recently we have had a rash of inquiries about dizziness while diving. Some divers experienced this while on the bottom and others while ascending, but few complained about getting dizzy during descent. Nearly all of the reports came from newly trained divers.

Dizziness that occurs while diving can be dangerous. Some divers felt they were going to blackout, while others had brief periods of disorientation. Either of these consequences can result in an accident and an accident underwater may be fatal.

There are many causes of dizziness, but in diving, a few need to receive special consideration:

Hyperventilation—A trace of subconscious anxiety in a new diver or a minor mishap underwater can result in excitement and hyperventilation. The worst case I witnessed was a new diver using an entire 80 cubic foot, 3,000 psi tank of air in 10 minutes at 30 feet. The hyperventilating diver may be unaware of his/her condition, but the profuse cloud of bubbles rising from his/her second stage gives him/her away. By breathing too much, the diver lowers the CO_2 in the blood and upsets the chemical balance of the body. Dizziness, shortness of breath, numbness in the fingers and toes and spasms of the hands and feet can occur from hyperventilation. Severe hyperventilation can cause a blackout. Sometimes the amount is not enough to be obvious to another diver, but still enough to produce dizziness.

Preventing hyperventilation depends on awareness. If you consume air at a rapid rate, are constantly short of breath or feel some anxiety during the dive, you may be hyperventilating. Consciously slowing your breathing rate, even if you feel short of breath, usually solves the problem. The new diver with hyperventilation problems often can overcome them by diving with an experienced and confi-

dent partner who can provide advice during the first few dives.

MIDDLE EAR IMBALANCE

The ears are not used just for hearing. Closely connected to our hearing apparatus are the organs responsible for balance. Called the semicircular canals, they keep us oriented relative to gravity. The balance organs can be stimulated by several events encountered in diving. On ascent, when the middle ear is decompressing, pressures can be different in the two middle ears. This situation is called alternobaric vertigo. Both dizziness and vertigo, a sense of spinning, can occur when the semicircular canals on the two sides are stimulated unevenly. The sensation of dizziness occurs on ascent. It can be stopped by slowing down and making sure both ears are decompressing properly. If you had problems clearing your ears on descent, you will be more prone to this on ascent.

Uneven cold stimulation to the ears will produce the same sensation. If you are diving in cold water and lift one side of your hood, cold water will reach one ear while the other remains warm. The difference in temperature stimulates the balance mechanism unevenly and results in dizziness or vertigo. You can avoid this by keeping both ears at the same temperature when diving in cold water. This is best done with a wetsuit hood. Be prepared for a dizzy spell if you lift one side of the hood.

ABNORMAL HEART RHYTHMS

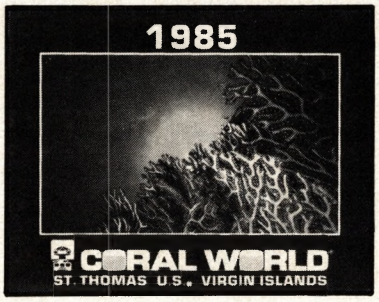
Although rare, when no other cause is evident, we must consider the possibility that an abnormal cardiac rhythm is causing dizziness. If the heart beats too rapidly (tachycardia) its pumping function is diminished and dizziness will occur. A rapid heart beat can occur from too much stimulation. Caffeine and adrenaline-like drugs present in decongestants can overstimulate the heart. A severe slowing of the heart beat (bradycardia) also produces dizziness. There are some people who develop very slow heart beats when immersed in water. This is a rare condition and would cause blackouts at the beginning of a dive.

Excessively high or low blood pressure can cause dizziness. People who take blood pressure medicine may experience dizziness from low blood pressure. Consultation with your doctor and changes in drug dose are necessary in this case.

You must consult a physician for other causes of dizziness. Because of the numerous possibilities, a thorough evaluation is needed. The most common cause of dizziness on ascent in a healthy diver is alternobaric vertigo. The effect is usually brief and with more experience, methods of decompressing the middle ear on ascent can be developed.

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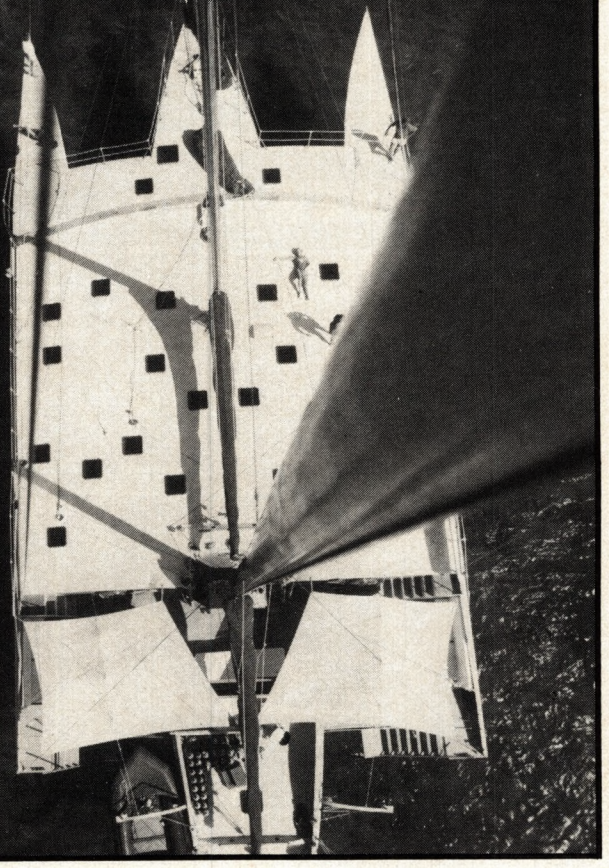
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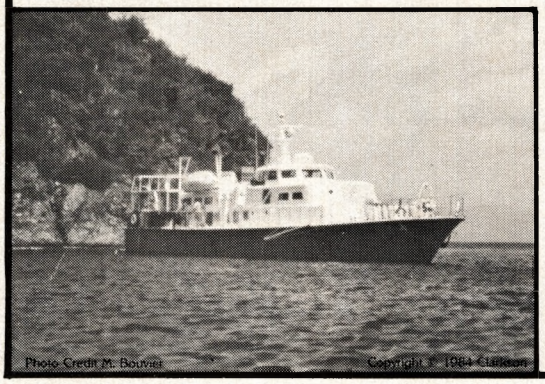


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IMPOSSIBLE DREAM

On July 6 the *Impossible Dream* struck Northwest Channel light, between Chub Cay and Bimini. This occurred at 2:00 am with the second captain at the wheel. The weather was calm, the night was clear and Northwest Channel light was working. The captain was not asleep, had not been drinking and was not on drugs.

There were no injuries other than a bruise or sprain and the crew, command-



ed by master Capt. Art Curtis, performed professionally and were commended for their actions by passengers.

After four months of negotiations with her insurance company, the *Impossible Dream* was determined to be a total constructive loss. She can never again fly an American flag as a passenger carrying vessel. Owners Inez and Dan Wagner would like to thank past customers and business associates for their patience during this period.

GREAT LAKES REPORT

An overview of the status of Wisconsin's Great Lakes resources is described in a new report available free from the University of Wisconsin Sea Grant Institute. The 62 page illustrated report highlights and summarizes the results of 15 years of U/W Sea Grant research on the economics, biology, chemistry and contaminants of Wisconsin's Great Lakes waters. The Future of Great Lakes Resources features six papers presented during the institute's 15th anniversary symposium in May 1983.

The report also summarizes the 1982-84 activities of the institute—its research projects, publications, budget, staff and field offices. Copies of The Future of Great Lakes Resources are available free from the U/W Sea Grant Communications Office, 1800 University Ave., Madison, Wisconsin 53705.

TECHNIFACTS

(Continued from Page 57)

structed; the gold mining divers who frequently invade some Alaska and Central California rivers. For the majority of recreational divers most rivers are too forbid-

ding. If undammed they frequently have treacherous currents that make diving hazardous. Visibility is seldom good. A few are slow moving and can be safely dived. One such river is the St. Joe River of northern Idaho.

A word or two extra about the St. Joe River! For one thing, it is the world's highest navigable waterway from Lake Coeur d' Alene upstream for some 100 or so miles; past bustling St. Maries (pronounced St. Marys) to the even smaller town of St. Joe. Other towns on the shores of the St. Joe River are Chatcolet and Calder, although for larger vessels the river is navigable only to St. Joe. Small tugs work log booms farther upstream. At one time steam vessels, nearly 200 feet long, plied the river carrying passengers and freight, mostly between St. Maries and Coeur d' Alene. Piers for loading and unloading were an important part of the towns as long ago as the mid-1800s. Historical objects lost or thrown from the vessels or from the piers should be recoverable by divers at the sites of the former piers. Research can pinpoint these locations and lead to some exciting diving finds. Other rivers have a similar interesting history and potential for rewarding diving.

What about manmade dams? Sport diving in these quiet waters can be rewarding and exciting. For the commercial diver such diving can be potentially hazardous. For both sport and commercial divers there are certain rules that must be followed for the sake of safety. First, know the regulations concerning all activities within the impounded waters. There will always be restricted areas, usually within a certain distance of the intake and around fish weirs and navigation locks. Heavy boat traffic can be hazardous, so avoid diving around marinas.

During my trip across Washington, Idaho and Oregon I was fortunate in meeting sport diver turned commercial diver David Darlow in Spokane, Washington. Darlow has been diving rivers and dammed up rivers, for fun and profit since 1958. According to him, "River diving can be very productive. In the early days most of my sport diving for artifacts was off docks along the shores of rivers." When I asked him about artificial lakes behind dams he told me, "My best diving in the lakes has been on Indian sites. I've found stone tools, pottery and other artifacts. While searching for those I have also found the wrecks of boats and some fairly large ships that were abandoned when the lakes filled after the dams were built."

According to Darlow, some good places in lakes and rivers for artifacts are under bridges (the older the bridge the better); around piers and docks used by steamers; and at the old river fords where early settlers crossed streams (not always successfully). Old ferry boat landings have been particularly rewarding.

The old piers may have long since fall-

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TECHNIFACTS

en or been torn down. Look for rotting pilings with their snaggy tops still above water. Books detailing local history are excellent sources for photos and information about location of piers, steamer and tug landings and what may turn out to be best of all diving spots, buildings that once stood out over the water on pilings. In old river towns, hotels and saloons or a building that was both, often were built out over the water.

A word of warning from David Darlow. "Dive artificial lakes with caution. The trees, brush and structures that were a part of the environment prior to flooding are probably still there." Proceed carefully. Visibility is frequently only fair. Always know where you are and what is around you on all sides as well as above. The thrills of expectancy and anticipation of find will usually keep a diver alert. Don't let any dive become a routine activity. Think constructively and react calmly to your thoughts. Diving into the past—and every bit of land covered by water contains bits of something that is of the past—is an excellent activity.

As far as is known, Washington, Idaho and Oregon have no antiquities laws relative to diving on prehistorical or archaeological sites. However, should a diver find something that is significant or if it is suspected it might be so, it would be an exciting event to share the find with state archaeologists and perhaps with the public. Avoid diving or otherwise desecrating Indian burial grounds.

Next month Technifacts will visit with David Darlow, probably the most experienced dam diver in the country, to learn the part commercial divers have played in the construction and maintenance of the many dams in the Northwest. Darlow has worked on most of them and can tell you what they are made of and what it takes to keep them a safe functioning unit. Join us for some good dam facts.

RADHIAL CUB 400

(Continued from Page 64)

Everything about the Cub 400 indicates rugged simplicity. The valves are a case in point. Made of heavy chromed brass, they are held in place by threaded flanges and can be replaced by the owner in the field if necesary. A spare valve is included as standard equipment for this purpose. The plastic cap acts as a safety seal and also as a wrench to remove and replace the valve itself.

The floor material is double reinforced all the way up the side. Three layers of material are under the wood keel and another double layer reinforces the area of the stringers. Rubber and neoprene

strips protect the bottom of the tubes when beaching the boat. Four large, comfortable rubber handles are on the sides of the boat and two more on the squared-off bow. In addition to making the Cub easy to carry, the handles double as fenders and as a place to tie mooring lines. A stainless steel handle under the bow is used for anchoring to a trailer or for hoisting.

Several D-rings are supplied on the bowdodger and also inside the boat for tying down loose items and lines which can be used as grab handles. Two piece wooden oars are standard, attached to the hull with Velcro® tie-downs. A pair of one way drain valves are at the bottom of the transom. In an effort to attract the diving market, a scuba tank holder is offered as standard equipment. It consists of rubber blocks that can be screwed to the floorboards. Two tanks will lie in the holder, secured by its nylon straps and buckles. Divers will also appreciate the flagstaff on the stern.

We tested the Cub 400 in the ocean off San Diego's Mission Bay. Loaded with four persons and a set of dive gear and powered by a 25 horsepower Tohatsu engine, the boat hesitated a bit before coming up on a plane. It tracked well in wind chop and two foot swells and handled turns well with no skidding. We had some problems with prop cavitation, which couldn't be sorted out by changing the engine tilt. Perhaps a different propeller would have done the job.

At a list price of $1,795, the Cub 400 is an affordable, well constructed boat of traditional materials and design. A ten year guarantee is offered to back it up. For further information contact American Radhial, 136 Charwood Circle, Rochester, New York 14609.

CUB 400

Overall length	12′ 10″
Overall width	6′
Tube diameter	18″
Weight	132 lbs.
Material	Trevira/neoprene/Hypalon
Number of chambers	3
Keel	Wood
Floorboards	Wood
Passengers	6 or 4 divers
Maximum horsepower	35
Color	Red-orange
Price	$1,795



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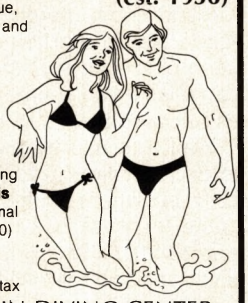
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NAUI DIVES CAYMAN

(Continued from Page 82)

tional Code; a lecture and practical session for rescue diving; and still had energy for a night dive. While pointing out that they need the education credits to keep their ratings, they said they came for new information to carry back to their fellow sport divers. "When you're dedicated you don't count the cost," Gunderson said. The added bonus of IQ-15 for them was the place: They had dived in Cayman already and had wanted to return.

Walt Hendrick Sr. is even more articulate in his reaction. A NAUI training director, he has attended most IQs. The fact that diving immediately followed discussion made seminars "pragmatic rather than esoteric" Walt explained. In a theory-oriented situation, he elaborated, there's little social interaction because people are busy listening. "But when you dive together, you exchange ideas, so more in-depth (pardon the pun) learning takes place. Participants get to know each other in a casual atmosphere. They can relax in the company of professionals as knowledgeable as themselves."

Walt also had kind words for the conference locale: "I don't know of any island, anywhere, with the degree of dedication to diving Cayman has." He also appreciated, "the proximity of boats to dive sites and the infinite variety of underwater terrain."

Walt was on the receiving end of equally good words. His deep diving seminar was supposed to have a maximum of 17 participants in three sessions. Instead, he accepted up to 25 people for four sessions after his popularity spread by word-of-mouth.

Were there any negative criticisms at all? There were two seminars some participants felt were "too easy." Walt has one possible explanation: He feels some divers were attracted to the very areas in which their own expertise was quite sophisticated, so material that may have seemed basic to them was quite appropriate for the non-experts. Coordinator Ron Bangasser suggests that some subjects, underwater video for example, are new to everybody, in which case what's easy is relative.

Photographer Dickie Walls summed it all up rather neatly: "IQ is a great chance to see old friends. When you get that many competent divers in one place, there are almost limitless opportunities for sharing. And, when you're out diving, you don't have to worry about novices doing something squirrely. You can just enjoy diving—which is what it's all about."

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WSU FLEA MARKET

Wright State University's U/W Education Program will sponsor its Third Annual Scuba Flea Market and Diver Exchange Sunday, April 21, from 9:00 am to 6:00 pm on the main campus in Dayton, Ohio.

In addition to the sales of new and used scuba and skin diving equipment, there will be continuous films, slide presentations and videos on travel, underwater photography and other diving related topics. There will also be demonstrations (with public participation available) in the WSU pool.

The event, attended by over 1,200 people last year, will again be free and open to the public. Groups and individuals interested in sales, promotional or demonstration space are encouraged to contact the director of the program as soon as possible.

For more information contact: Dan Orr, Director, Underwater Education Program, Wright State University, Dayton, Ohio 45435.

BSC DEFENSE FUND

A special meeting was held recently with representatives of several Massachusetts dive clubs, dive shops and instructor groups attending. The objective of the meeting was to develop a funding strategy for the BSC legal defense fund and its upcoming court case regarding beach access. At least $5,000 will be needed for this case. At the meeting, a number of good ideas were presented and decisions were made to do the following: (1) Sell T-shirts and bumper stickers bearing the slogan, "Free the Beaches." (2) Solicit cash contributions from individual divers and club members. The recommended minimum contribution is $10. (3) Solicit cash and/or merchandise contributions from instructor organizations and individual instructors. (4) Solicit cash and/or merchandise contributions from dive shops, charter boats, equipment manufacturers, etc. (5) Set up Free the Beaches booths at the Boston Sea Rovers and Underwater '85 diving shows in March and hold equipment raffles. (6) Hold a Free the Beaches dive-in (an underwater treasure hunt) this summer.

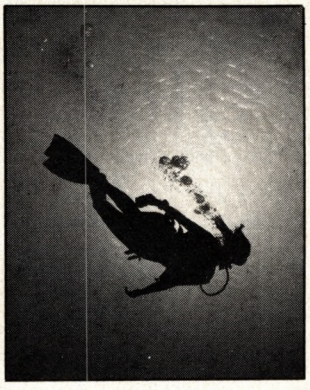
For information contact the Bay State Council of Divers, 55 Sea Street, Quincy, MA 02169.

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Tom Furbish has been appointed scuba products manager for Selpac Southeast. In his new capacity, Furbish will be responsible for Sherwood scuba products sold exclusively through Selpac Southeast to the southeastern United States, Caribbean Islands, Central and South America.



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May	**Bahamas** **Ft. Lauderdale**
June	**Belize** **New York/New Jersey**
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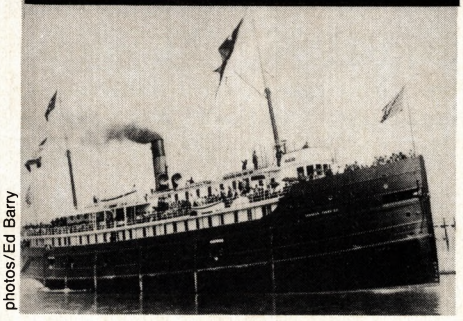
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THE GOODRICH JINX SHIP



photos/Ed Barry

BY RICHARD TRIEBE

Divers in the Chicago area are extremely fortunate—they have been graced with a wealth of shipwrecks. Lake Michigan waters, when whipped into a frenzy, have torn many a ship asunder.

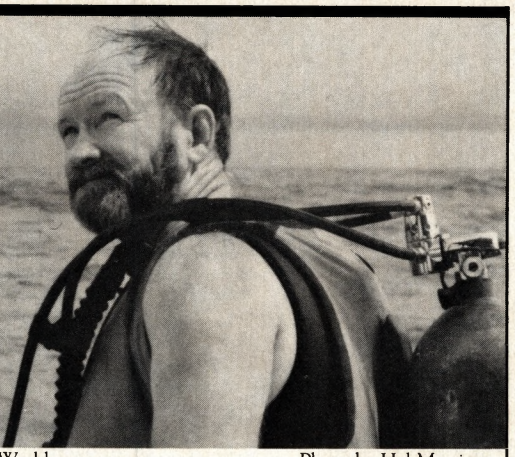
One of the most famous shipwrecks in the area is the SS *Iowa*, a passenger steamer for the famous Goodrich Line. This shipping line flourished from 1855 to 1931 and had 63 vessels in its fleet. The *Iowa* was built in Manitowoc, Wisconsin by H.B. and G.B. Burger in 1896. Her wooden hull was salvaged from the SS *Menominee* and covered with iron sheathing. Her bow was reinforced for protection from the lake ice. She had cabins and staterooms for carrying 200 overnight passengers in safety and comfort. Like many passenger steamers of her day she also carried package freight to help meet expenses. She was 202 feet in length, 36 feet wide and bore the Goodrich symbol of a single red stack.

Throughout most of her 19 year career the *Iowa* was known as a jinx ship: Five of her captains were dismissed for accidents or groundings. Mr. Goodrich had a saying, "The first time there's an accident, shame on him; the second time, shame on me." If nothing else, this kept new blood in the company and provided a chance for advancement.

One of the *Iowa*'s accidents happened on the very foggy morning of July 17, 1913 as she made her way carefully to the Goodrich dock on the Chicago River and tied up safely. After unloading her freight she headed for another dock to begin reloading when she was struck by another Goodrich steamer, the SS *Sheboygan*. The *Sheboygan*'s bow cut a 15 foot long gash on the port side of the *Iowa* that reached down to within three feet of her keelson. Much to the dismay of the captain, the *Iowa* filled with water rapidly

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Charles Garrett in Cartagena with Scuba World crew. Photo by Hal Martin.

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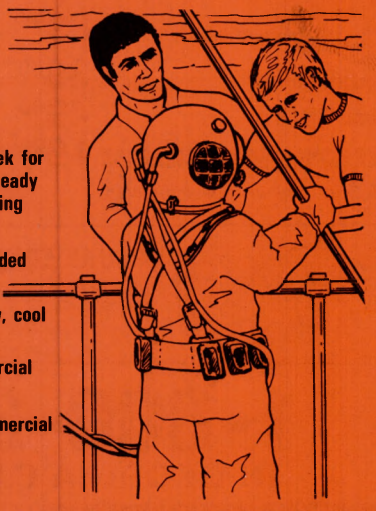
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IOWA

and sank soon after reaching her regular berth. This was not a fatal blow though: She was raised on July 27. After extensive repairs in drydock she returned to her regular run—after a change in command, of course.

The *Iowa*'s final scene was played out on February 4, 1915. She was enroute from Milwaukee to Chicago when she encountered a heavy ice field. She changed her course to keep in open water, looking for a break in the ice. Finding no way to Chicago through the ice, she stopped her engines to await a change in the wind or an escort to cut a path. At 7:45 am this message was sent to H.W. Thorpe, Goodrich vice president and general manager: "In open water off Carter Harrison Crib. Captain G. Stufflebeam." Just a short time later the *Iowa* was joined by the steamer *Racine* and together they headed for the Chicago River. The *Racine* had an iron hull and took the lead, cutting a path closely followed by the *Iowa*. At 9:45 am another message came: "Making good progress." The officials breathed a sigh of relief, for they knew the winter had been severe and the ice was thick. Progress was slowed when the wind freshened from the east and started to move the ice. Suddenly the lane ahead of the *Iowa* closed as hundreds of tons of ice began to pile up ahead of it. The *Iowa* was frozen fast in the ice! It was 10:35 am when Captain Cochrane, general superintendent, got this message: "Send tug at once. Fast in ice. Ice running hard. Starboard forward planking struck loose. Leaking badly. *Racine* stuck ahead. Stufflebeam."

When the captain stepped out to inspect his vessel's condition he found the ice had piled up forward of the starboard gangway and had begun to pry the upper decks loose from the hull. The ice had already lifted the main deck two feet and the hull was rapidly filling with water. The order to abandon ship was hastily given. There was no disorder of any kind among the 70 members of the crew, all but one of whom were men. Only one person was hurt—Frank Lowery, a fireman, slipped on the ice and broke his collarbone.

The *Iowa* was crushed in a peculiar fashion. The ice climbed up her sides and slid onto her deck. First the hurricane deck went to pieces, then the cabins, then the yawls and last the siding. By this time the nose of the boat was down. She filled with water fast.

The crew stood on the ice and watched in horror as the boat rolled still farther to starboard. Its stern climbed out of the ice and prepared for the death plunge. This came in a moment. She slid down to the bottom, as the ice field seethed and groaned. Wreckage and boxes floated

about in the open water. The panic stricken survivors escaped to shore—nearly two miles away—over the ice.

The *Iowa* was a total loss. The hull, a hazard to navigation, was dynamited as soon as the ice melted. Captain Stufflebeam was reduced to first mate. The *Iowa*'s location remained a secret until 1976 when diver Tom Freeman discovered her.

The jinx ship now is a lucky ship for divers. She has never failed to give up tidbits of her treasure to me: silverware,



cargo, personal possessions of the crew and antiques. She is a constant source of amazement and adventure.

The *Iowa* lies in 40 feet of water. Visibility is usually six to seven feet. Bent pipes and broken railings are prevalent on this wreck. There is also a safe with no door and a model-T truck frame. If you fan the sand you may still find silverware. The ends of the handles contain the monogram of the Goodrich Transportation Company, a pennant with G.T. Co. on it. Divers have also found an ornate brass clock, several silver sugar bowls and a silver teapot.

WRECK FACTS

(Continued from Page 14)

Reports of the U-352. The *U-352*, a World War II German U-boat, is one of the most popular dives in North Carolina. Ed's books include photos that he actually obtained from Captain Hellmut Rathke and his crew, survivors of the sinking. The books are $9 each or two for $15. Order from Ed Caram, P.O. Box 178, Jacksonville, NC 28541.

Cast Away and Wrecked sounds like something out of Robinson Crusoe, but it's a hardcover book by Rex Cowan and Gerald Duckworth, London, England. Ever since seafarers first sailed off the rocky coast of Southwest England, the Scilly Isles and Cornwall have claimed thousands of ships. But it wasn't until the latter part of the 19th century that details of these wrecks were researched and recorded. The text of Cowan and Duckworth's book is interesting and the photos are dramatic. Order from: Seafarers Heritage Library, P.O. Box 73, Woodstock, VT 05091. The price is $12.

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SEA VEGETABLES



photos/Bonnie J. Cardone

BY JEANNE CULBERTSON

Diving can be more fun than ever if you learn something about seaweeds. You can take home, free, the most delicious, nutritious vegetables in the world. Although you can use seaweeds newly washed up on the beach, divers can get the pick of the lot—giving them greater variety, flavor and nutrients.

You may even get interested enough to want to become involved in aquaculture after eating seaweed. Divers will be hired as new sea farming projects gain momentum in Hawaii, Washington, California and in other countries. The seaweed authority, Valentine Chapman, hails them as a food of the future. He wrote, "One could indeed develop a very strong case for the use of compressed seaweed packets for consumption in any space journey of the future."

All of us have been eating seaweeds for years in our processed foods. That smooth texture of ice cream, salad dressings, chocolate milk, etc. comes mainly from the alginates extracted from the big forests of *Macrocystis* off the California coast. Other chemicals from seaweeds keep that fine head on your beer, meringue up high in ready made pies and stop mixtures from separating. The U.S. uses such tremendous amounts of chemicals from seaweeds as suspending, stabilizing and emulsifying agents that we have even been going overseas for supplies. Marine algae are truly super plants.

But, we have ignored them as a direct food, although for centuries they have been an important part of the diet in the Far East. Japanese women credit the blackness of their hair and trim figures to sea vegetables. Pacific peoples make them a part of special holiday foods and pay high prices to get them. In past years those living in Ireland, Scotland, England, Maine, Nova Scotia and the natives of our Northwest unknowingly got much of their vitamin C (besides many others) from this source.

Why not try them yourself? Use them fresh—raw and crispy—in salads or freshly cut up in whatever you are cooking. Just add to the pot of stew, spaghetti or pizza sauce. Use them dried and ground up as a flavoring in anything calling for salt; as flakes in high energy candy; in popcorn or biscuits. Let your imagination run wild—seaweed adds the vitamins, minerals and bulk so necessary for busy

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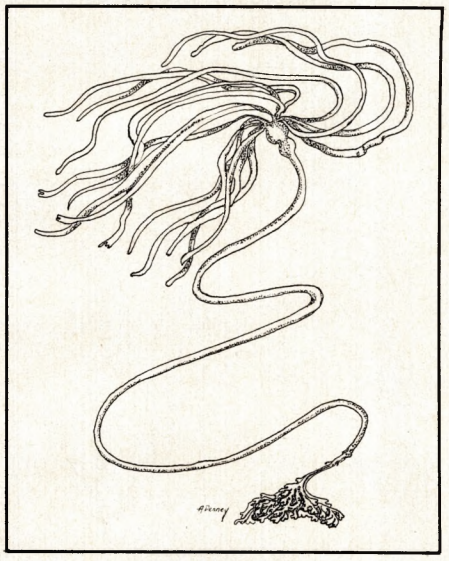
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You will need two things, a knife and a bag of some sort. An old laundry bag, mesh fruit or vegetable bag or one you use for your spearfishing will keep your collection fresh. If you are going to collect a lot of the heavier kinds, you may want to tie the full bags to empty plastic milk or bleach bottles and float them until you come back to pick them up. I like to rinse my seaweeds thoroughly in the sea before taking them home to the refrigerator, to dry outside or in the utility room.



illustrations/Alice Denney

Nereocystis

Before starting out it will help you to know only two seaweeds are questionable. One is a very thin hair-like species which grows in the warmer waters on the roots of mangrove trees. The other, a brown *Desmarestia*, grows in deeper waters. It contains a dilute sulphuric acid giving it an unpleasant lemon-like taste which would probably cause an upset stomach if eaten in quantity. It bleaches other seaweeds touching it.

The classification of seaweeds by color can be confusing. A red can look brown, browns seem more a dark olive green and many are nearly black when exposed to the air during tide changes. Sea vegetables, like their land cousins, are distinctive in texture, taste, seasonal variation, chemistry and preferred locations. Some kinds can be found on almost any coast. The type of seashore, the amount of light, temperature, salinity, roughness of the water and the depth determine which ones live in each place. The big brown algae (kelp) grow along the colder, rocky shores of the Atlantic and the Pacific. From Long Island to North Carolina the quieter sandier coasts favor greens. Farther south the warmer waters cause a shift to the reds. The Gulf of Mexico has the least algae growth. The Pacific side of the Gulf of California is rich in

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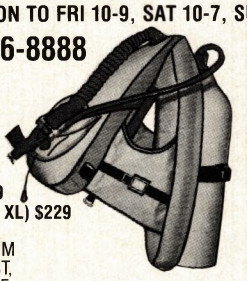
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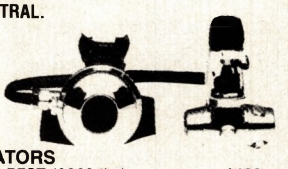
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sea vegetables. From Mexico to Point Conception huge beds of *Macrocystis* dominate the scene though many others do well. As the waters become colder and the shores more rocky, the Monterey Bay area promotes the growth of nearly every kind of sea vegetable known to the Pacific Coast, making it an ideal spot.

Most sea vegetable fans put brown algae at the top of the list because of their versatility, high vitamin and mineral content and flavor. The many different kinds can be used interchangeably in most recipes so you can almost always find one handy. You will probably find a favorite. Mine is any of the *Alarias*—sometimes



Macrocystis

sold under the Japanese name *wakame*. In Western cultures they are called honeyware, kinged kelp and bladder lochs. By any name their delicate taste and tenderness lend themselves to an endless number of food uses.

Alaria growing in the lower intertidal zone on both moderate and exposed coasts become more plentiful as you travel north. Their long (4-20 feet) olive green to rich brown main blade arises from a short stipe which flattens into a thick midrib. Mature plants will have several rows of short, thick blades between the holdfast and the main blade. Although these are good to eat, plants should be cut between these and the main blade to ensure the regrowth of these perennials.

Many divers are familiar with *Nereocystis*, the giant sea kelp or bull whip, which grows up to 120 feet in one year. The long hollow stipe and float make delicious pickles. The blades can be used fresh or dried.

Macrocystis (sea kelp or sea ivy) can be 90 feet long in the more sheltered areas of the open sea from Alaska to California. The yellow brown, wrinkled looking blades, about 12 inches long, have tooth-like projections on their edges. The rounded bases of the blades arise directly from small floats which bring the

blades to or near the surface. Divers should cut the plants well above the smooth reproductive blades at the base.

Many people buy *Macrocystis* in the form of kelp powder, flakes or tablets at health food stores as a salt substitute or for its vitamin content (E, A, B, D, C, iodine and all the trace elements like most of the others). Divers can dry and grind it or any of the sea vegetables, to use on any food as salt, in bloody Marys, etc. Some athletes claim it prevents muscle cramps and provides energy. I like any of the dried sea vegetables just for nibbling any time at home, but you can nibble on them fresh at the beach, too. Add freshly cut up *Macrocystis* to any of your recipes using vegetables.

The sea palm, *Postelsia*, looks like a three foot palm tree growing on the rough coast along with barnacles and mussels. Like *Nereocystis*, when sliced, its hollow stipe makes fine pickles or is especially delicious just steamed. The Japanese serve it with lemon juice and soy sauce, but try it with your favorite seasoning.

The 5-10 foot *Sargassum* somewhat resembles *Macrocystis* but has inch long blades with a number of smaller floats. It grows in warmer, quieter, waters. Although thick, the blades are tender.

Knowing about two red sea vegetables adds to a diver's menu and appreciation of the variety of marine algae. Many of you have already sampled sushi in its thin black nori wrapper. It is made from pressing a one or two cell thick layer species of *Porphyra* which is intensely cultivated in Japan. When wet, hanging from the rocks, these look like a sort of steel gray to purple leaf. As most grow where they are exposed to the air for a time each day, they may stick to the rocks like black, rubbery sheets or may even be brittle. Pick them, let them dry till brittle for soups, etc. If you get them wet, spread them flat to dry. Toast them carefully for just a second or two before using them to make your own sushi with fish you catch.

Several varieties of *Gracilaria* resemble soft, reddish brown, nylon fishing line about 8-12 inches long. They grow on rocks or small stones on sandy beaches between high and low tide lines in quiet, warmer waters. Sparsely branched, with a pleasant fragrance and crisp, cartilagenous texture, they bring a good price in the markets of Honolulu and other Pacific cities. Chopped up raw, the young tender ones are great in any vegetable salad. I like to use them like lettuce in sandwiches for a cool, crispy flavor. Because of its high quality agar, it has many other uses.

The *Seavegetable Book*, by Judith Madlener, is very complete with identification, nutrition and recipes, although these tend to be mostly Oriental types. *Common Seaweeds of the Pacific Coast* by Robert Waaland, helps with identification and other uses. Evelyn McConnaughey's two small booklets, *Sea Vegetable*

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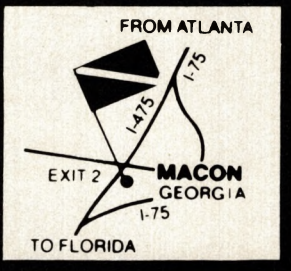
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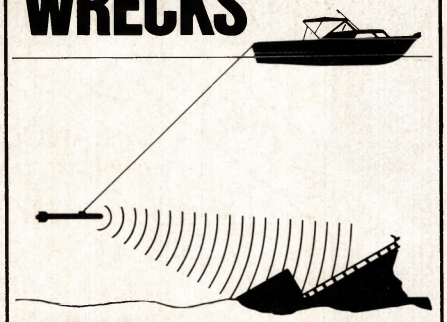


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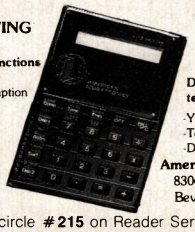
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Recipes from the Oregon Coast, are very good. They are available from the Oregon Institute of Marine Biology.

Try some of these easy recipes to get started, but be adventurous. Savor some new taste treats, improve your health and have more fun—all for free.

SEA VEGETABLE STEW

Take whatever meat you have—beef, chicken, pork, ham—brown in a heavy pot with a small chopped onion, add enough water to cover. Cook slowly to within 30 minutes of being done. Then add several cups of any of the brown seaweeds freshly chopped, a sliced raw carrot or two for color, some diced celery and whatever starchy food appeals to you—rice, potatoes or noodles. Cook 20-30 minutes and presto—a one pot, complete, delicious dinner.

MERMAID'S DELIGHT

Break any of the dried brown sea vegetables into 1½ inch long pieces. Place them in the basket of a deep fryer. Pop into very hot cooking oil for just a second. Let drain a little, then shake them in a bag with sesame seed (or cinnamon and sugar). Your guests will gobble them with their drinks or any time.

SWEET PICKLES

Peel the outside layer of a *Nereocystis* stipe or float with a vegetable parer. Cut into one-half inch pieces, soak in cold water for 15 minutes, drain and repeat. Put the cubes in a pan, cover with boiling water and simmer just until easily pierced with a fork. For each four pounds of kelp, combine three and one-half cups sugar, two cups of vinegar (white or apple), one-half teaspoon oil of cloves, one-half teaspoon oil of cinnamon and simmer two minutes before pouring over cooked kelp. Let stand overnight in an enamel pan or crockery bowl. Heat the kelp and syrup just to the boiling point the next morning and let stand overnight. Repeat the third morning and seal in hot, sterilized jars. These have been a big hit.

Any of your recipes for semi-sweet or dill pickles will work for sea vegetables as well.

HIGHLIGHTS OF A SCHOLARSHIP YEAR

BY DOUG KESLING

Perhaps the greatest experience of my life began when I was selected as the Our World-Underwater scholarship recipient for 1983. Imagine having the opportunity to travel in and around the United States for one year's time, meeting various leaders in the field of diving and learning through hands-on experience about many aspects of the diving industry. Each year the OWU scholar travels to dive resorts, marine labs, universities and scientific institutions. He or she attends diving conventions, participates in field expeditions and research projects—all designed to provide the recipient with a greater understanding of a variety of diving applications. The recipient can expect



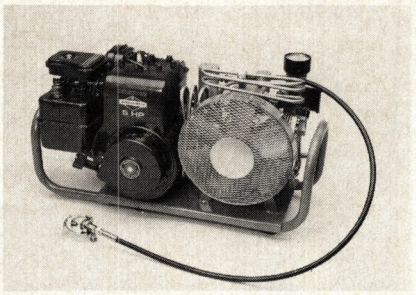
photo/Charles West

an incredible exposure to the diving industry from which he/she will gain new insight into a diving-related career!

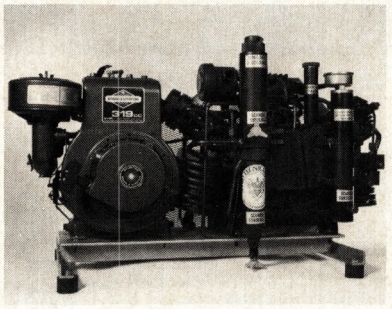
The Our World-Underwater scholarship program, started in 1973, is designed to make an investment in a young person. It provides a unique exposure to all areas of underwater activities and ocean exploration that can be experienced in a year's time. It is the scholarship society's belief that this young person can, after taking this opportunity, make a more objective decision on his or her future direction in an underwater field of endeavor.

This award is given each May in Chicago at the Our World-Underwater convention, one of the largest in the country. Proceeds from it help provide funding for the scholarship program. The scholarship society allocates $7,500 to the OWU recipient to be used for travel expenses, food and minimal living arrangements

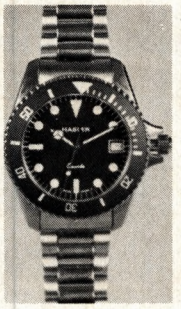
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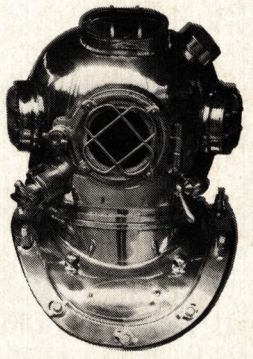
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SCHOLARSHIP YEAR

throughout the scholarship year. Each recipient is hosted by various leaders in the field of diving. These latter play a vital role in the success of the scholarship, because without their contribution of time and energy, there would be no scholarship experience.

Any individual interested in pursuing a diving-related career is eligible to apply. The only requirements are that the applicant be between the ages of 18 and 25, a certified diver and have high academic standing. Applications are due each year by November 30 and selection for the scholarship is based on the application submitted. These applications are reviewed by a committee made up of prominent members of the diving community. There are secondary scholarship experiences offered each year as well. If awarded the scholarship, the recipient can expect a fun-filled and fast-paced year of travel around the country. It would be an almost impossible task to mention



photo/Gordy Waterman

everything so I have just included a few of the highlights.

My first experience, which began in May 1983, took me to Baja, Mexico with underwater film producer Stan Waterman. Stan brought Peter Benchley and Dr. Eugenie Clark to the Sea of Cortez, to film whale sharks for an ABC American Sportsman production. During the two week expedition, I had my first encounter with a 30 foot whale shark. It was a thrill to learn about underwater photography techniques from a premier underwater cinematographer.

In July, I was off the coast of Sitka, Alaska with NOAA and the National Marine Fisheries Service. I participated in a study of Pacific halibut fishing techniques. The project used a two man, 1,000 foot rated submersible, called the *Mermaid II*, to collect data from halibut long-line fishing gear set on the bottom. Daily dives were conducted aboard the submersible to an average depth of 400 feet. The data recorded has important implications for the National Marine Fisheries Service in its management of the halibut fishing resource.

From Alaska I returned to Santa Barbara, California where I was enrolled in an advanced undersea photographic

course at Brooks Institute of Photography Arts and Sciences. This helped me develop techniques in undersea still photography. As a class project, we took a three day sea trip to Santa Cruz Island to practice our newly learned skills and to document the magnificent marine life found in the Channel Islands.

Across the country to the Bahamas, I served as a divemaster at Rum Cay Diving Club. During my two weeks I learned about the complete management of a diving resort. From the experience I gained greater insight into the diving travel business, one of the fastest growing aspects of the diving industry.

Also, while in the Caribbean, I participated as a support diver for the NOAA Undersea Habitat Project. Hydrolab, in



photo/Doug Kesling

St. Croix, USVI, affords scientists the opportunity to saturate on the seafloor for ten day missions, to conduct scientific research in hopes of better understanding the ocean environment.

In December I went on a two week cruise in the Bahamas with the Harbor Branch Foundation. Harbor Branch develops and operates two deep diving lockout submersibles called the *Johnson Sea Link I* and *II*. They are used for ocean exploration and are engineered with special tools to conduct a multitude of sampling tasks. During this cruise I experienced a submersible in action when I made a dive to 720 feet to explore a coral reef community off Grand Bahama Island.

Finally, my last experience took me back to Southern California in May 1984. While at the Catalina Marine Science Center, I participated in a hyperbaric chamber operations course. Here I learned to operate the chamber as well as the protocols used in treating diving-related emergencies. The Catalina facility is one of the most active diving treatment related chambers in the country.

As you can see, an OWU scholarship year contains a variety of educational experiences. For me, the year was well spent and I learned an incredible amount. Often asked if I would do it again, I simply smile and say, "Can you give me five minutes to pack?"

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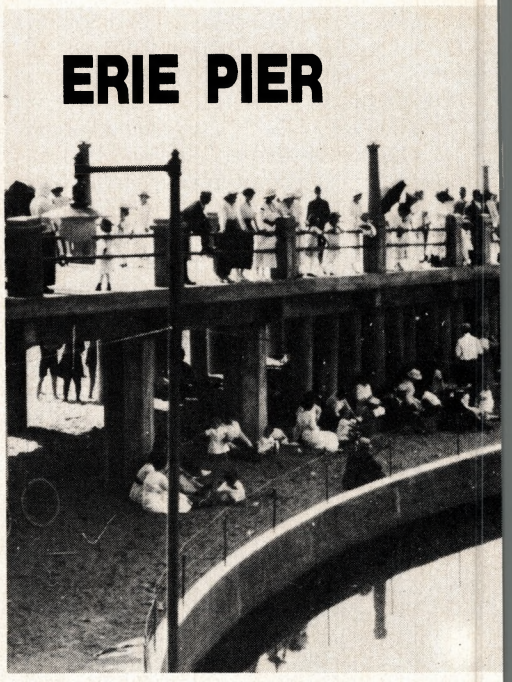
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ERIE PIER



BY GREG SOUCHIK

It started out quite innocently—a dive on the remains of an old pier. It had once been almost 650 feet long and used by fishermen for seven decades. During those years it also carried the weight of literally millions of people who visited the vast amusement park of which the pier was a part.

The pier had been built originally in 1895 on the south shore of Lake Erie, 160 blocks east of downtown Cleveland. It had been lengthened and rebuilt over the years. It had also been the docking spot for local ferries and some small steamships. A restaurant had been part of the structure at one time but a fire put an end to that. The ravages of time and the relentless waves of Lake Erie also have taken their toll.

Euclid Beach Amusement Park had its last season in 1969. It closed and, technically, so did the pier. It was still usable, however and many people still fished off its weathered planks. Over the next few years the winters grew longer and harder and the ice, caused more and greater damage to the pier and her pilings. All this, coupled with frequent summer storms and the lack of any maintenance, eventually led to the destruction of the boardwalk. In the summer of 1973 the only way one would have known there had once been a majestic walkway onto the lake would have been from the concrete ramp and the stumps of pilings reaching up from the water's surface.

For several years local divers talked about checking out the old wreck of the pier. But always some other important matter or a more interesting dive took precedence. Finally, in August of '73, a couple of avid local divers could find nothing better to do—their boat was in for repairs and their wallets were quite emp-



ty. They decided to blow a tank on the old pier. They entered the property and the ruins of the old park. It brought back fond memories of happier days, of roller coaster rides, bumper cars and Ferris wheels. All this was gone for good. Only the remnant of the pier, with its pilings standing like silent sentries, was left.

Frank and his partner suited up on the hillside and took the long walk over the rocky beach to the water's edge. They then made the even longer swim out to where the last pilings were visible. On the surface the divers noted that more pilings could be seen just below and in fact, these stretched out for nearly 100 more feet beyond those last ones visible. Over the years more than one boat found its way to the bottom because of these. The diveable portion of the pier averages anywhere from 8-20 feet deep. On the bottom the divers were amazed to find a startling five feet of visibility. Most inshore locations in Erie produce poor visibility and the beach was no exception with anywhere from a rare maximum of 10 feet down to what we refer to as "minus retina" or pitch black.

The sandy bottom was littered with debris. Old pilings lay alone or piled two and three deep. Shopping carts were a common sight as were bedsprings, car bumpers, sheet metal, sections of power boats and anything else you can imagine.

The divers were amazed by this underwater junk yard. But this is nothing new to lake and quarry divers. While he was poking around between the pilings, something caught Frank's eye. It was the tip of a fishing rod. He was elated. But, the rod was stuck in the sand and wouldn't pull free. So Frank proceeded to fan the sand. The more he fanned the more the rod was exposed and the crater

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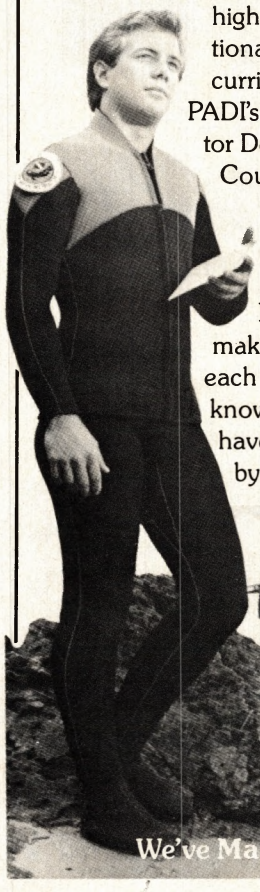
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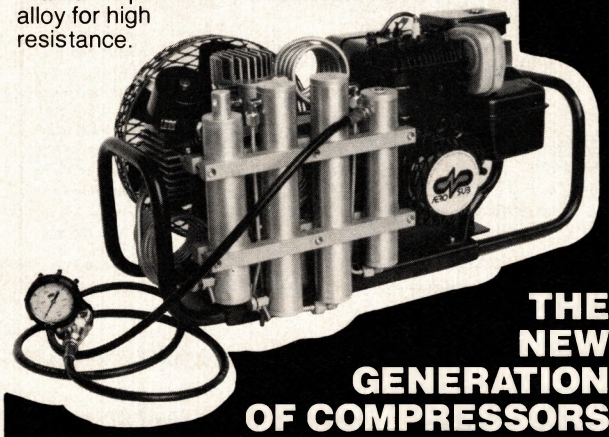
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ERIE PIER

in the sand deepened as he worked. When he was an inch or two from the hard clay bottom something else caught his eye. The object sent a glint of light filtering through the algae and sand he had stirred up. He stopped and waited for the wave action to clear the cloud of silt. Slowly and gently he fanned in the sand until he uncovered the object. A tingle ran down his spine and his eyes got large as he gazed at his find, a mercury head silver dime dating from the '20s. He started to search for a place to store his treasure when he noticed he had inadvertently cleared a small area next to a nearby piling right down to the gray clay bottom. He did a double take and nearly spit out his regulator. The area was littered with coins! There were lots of pennies and



some strange looking coins with holes in their centers. These turned out to be penny arcade and ride tokens. Others, without any lettering or pictures, turned out to be slugs thrown into the lake at the most convenient point by irate penny arcade managers.

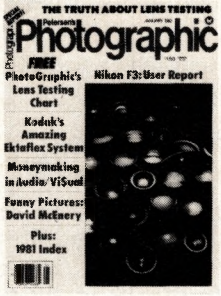
Not only coins littered the bottom but many other interesting and useful items, one of the most useful being a vast amount of lead fishing sinkers. Tons of lead have been recovered. It was not uncommon for a seasoned beach diver to pull up 100 or 200 pounds of lead in a season. I personally recovered over 800 pounds in 74 dives with over 117 hours underwater. Frank Krasovec was probably the leader in lead with over 1,000 pounds. Even to this day fishermen add to the future weightbelts of divers by snagging their lines on the pilings and trash remaining on the bottom, leaving their lead sinkers behind.

Speaking of boaters, The Beach was a bonanza of boat anchors, with new ones added each year. Hundreds were recovered over the years to be sold back to boaters for them to lose on the pier to be recovered . . . etc.

Many couples over the years used the pier as a place to propose. I would assume from the volume of wedding bands we found that some marriages also end-

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ed there with one or both parties flinging their rings into the deep. I suppose some were lost while swimming or for other reasons, however, it is all conjecture as to how they found their way there.

I have often been asked how so many coins ended up at this one place. There are several probable reasons for the abundance of coins on the bottom. The pier was fished for over 70 years and most anglers sat on the boardwalk with their feet dangling over the edge. I'm sure change from their pockets fell out and slipped through the spaces between the planks along with numerous pocket knives. I collected several hundred of the rusty blades before I stopped picking them up. Coins were also tossed in purposely for good luck. I'm sure many swimmers also lost items from their suits. My best find to date has to be the 1911 U.S. $10 gold piece.

The Beach is not all fun and games. It was a long hard swim from shore after a long walk completely suited up. Now since it is off private property and the owners do not allow access to divers from shore; the only way to dive it is from a boat. A public boat launch is at Neff Road one-half mile east of the wreck of the pier. But there are still other hazards. During the runs of perch and other game fish, fishermen in boats of all sizes park over the area. With the vast amount of fishing activity huge quantities of monofilament line are also lost and tangled on the bottom, just waiting for divers—don't forget about the hooks! An inner tube-mounted dive flag is a must, not only to warn boats but as a place to rest and also tie off any anchors you may find.

Underwater obstacles also include razor sharp sheet metal, precariously positioned pilings and unpredictable visibility. This latter can be good one hour and terrible the next. One unusual dive made at The Beach took us out to the dive site on a bright, sunny but windy day. We reached the bottom and found MR (minus retina). Disappointed, I was about to scratch the dive when I decided to sift through the sand with my fingers. Amazingly enough in the darkness I found a few coins and after a half hour the visibility improved to about four inches (the minimum serious coin scrounging visibility) and of course we came up with more goodies. Today, after thousands of dives logged by hundreds of divers, good finds are much harder to come by. You have to move rocks, sand and debris to recover a coin. But once you do get lucky and find one you'll probably realize all the effort was worth it.

This dive is not for the rank amateur or someone who gets ill at the sight of decomposing fish. But for those of us who have tasted the thrill of the hunt and the satisfaction of the find, the sound of the words, "let's dive The Beach" brings back a rush that has never left and I hope, never will.



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SUMMERSVILLE LAKE

BY GLEN H. SAGE

With a week of vacation time, I was looking forward to a return to the "Little Bahamas of the East." This is none other than Summersville Lake, in Nicholas County, West Virginia.

I was certified here five years earlier. At that time I thought all inland lakes had visibility like Summersville. As I remembered it, visibility was sometimes nearly 50 feet. The thermoclines were also milder than those I experienced in other inland lakes. At Summersville, when the surface water temperature was 80°F, the temperature at 70 feet would drop to only 65°F. Natural surface light was not lost until 65 feet. After enjoying one summer of diving this location, I moved to a neighboring state.

That was the beginning of my search for inland lake conditions like those at Summersville, WV. I tried Smith Mountain, Philpott, Claytor and Moomaw Lakes. The maximum visibility I experienced was around 15 feet. The thermoclines were also very harsh.

After these other lake dives, I was excited about returning to Summersville for a week. Much of the lake's perimeter is rimmed by rock cliffs. It also has miles of no-wake zones. The lake is fed by the Gauley River, one of the cleanest and clearest rivers in the East. All of these factors contribute to the exceptional clarity of the water.

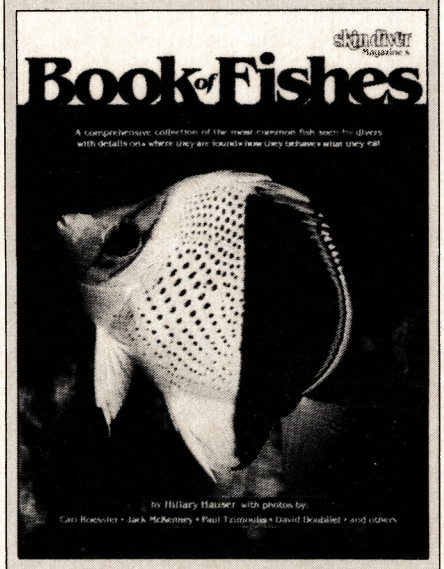
After arriving at the lake, I made my first dive by walking into the water off Long Point Marina. This is not the most ideal site on the lake, but still a dream come true. I swam slowly underwater toward the center of the cove, until my depth gauge showed 45 feet. My memory had not failed me. We had 45 feet of visibility at 45 feet of depth.

This was the first of many excellent dives I was to enjoy that week. They were made with members of the local dive community and the staff at Sarge's Dive Shop. This included both day and night diving and also offered the opportunity to see a number of species of fish, along with exploring small caves that went 60 to 80 feet back into the cliffs. These can be found at depths of 10 to 60 feet.

If deep dives are of interest, it is not difficult to locate spots less than 20 feet from shore where the bottom is deeper than 100 feet. The lake is over 100 meters deep in several locations.

As summer approaches, I find myself looking forward to a return to the "Little Bahamas of the East." If you have an interest in diving this lake, you can obtain information by contacting Bob Adams of Sarge's Dive Shop at (304) 872-3160 or (304) 872-1782.

From skin diver magazine's Fish of the Month column



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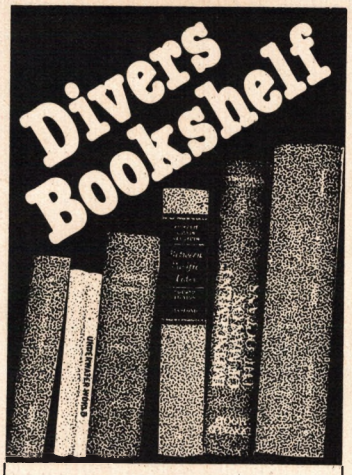
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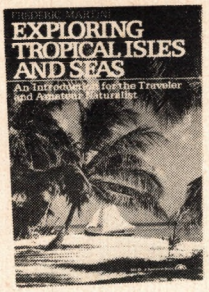
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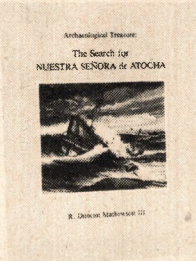




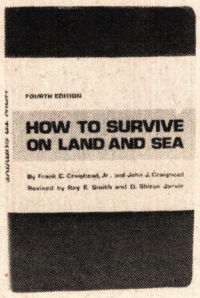
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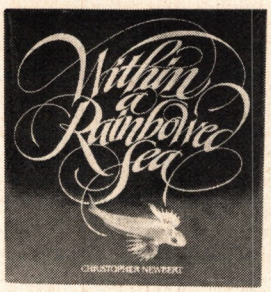
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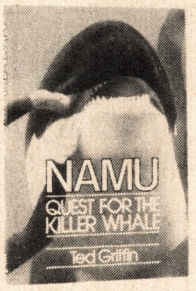
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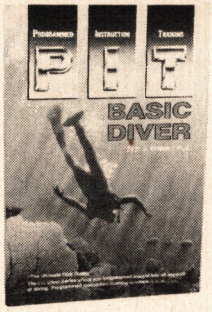
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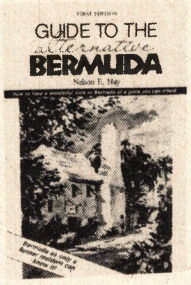
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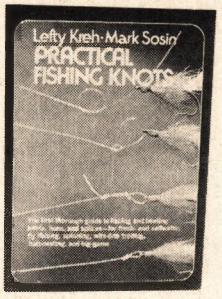
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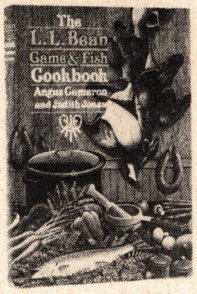
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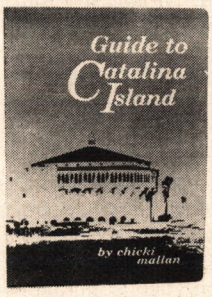
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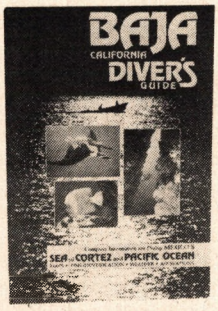
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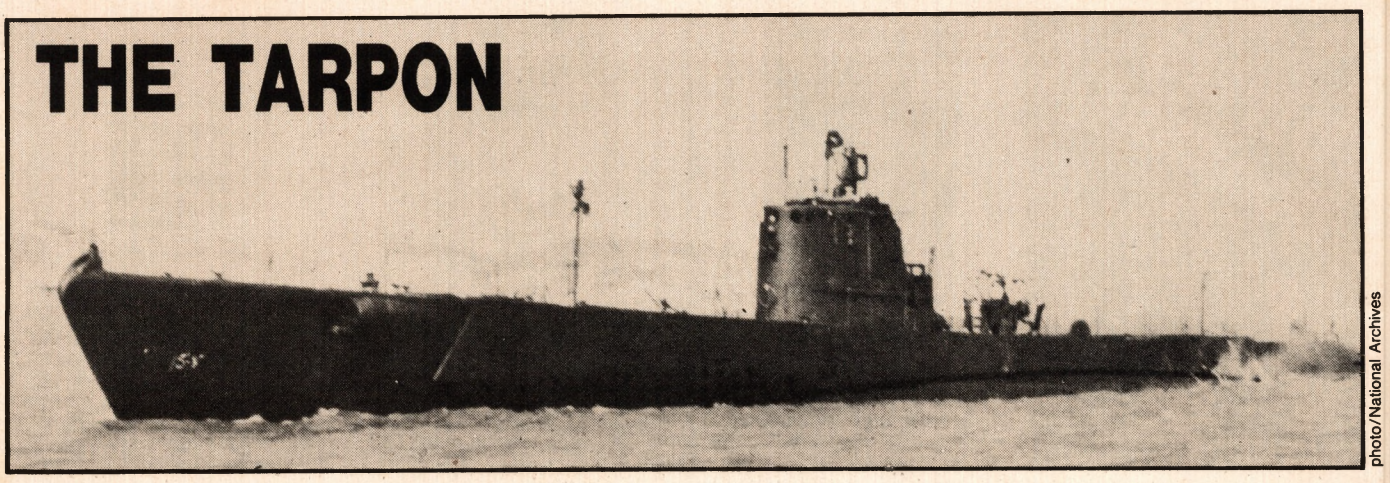


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THE TARPON



photo/National Archives

BY ROD FARB

The *Tarpon* (SS-175) was one of two submarines built by the Electric Boat Company of Groton, Connecticut, during the 1936 U.S. shipbuilding program. Their construction marked a major change in shell fabrication because they were the first all-welded submarines in the U.S. Navy. The *Tarpon's* keel was laid on December 22, 1933 and she was launched on September 4, 1935. Lt. Leo L. Pace was at the command of the *Tarpon* when she was commissioned on March 12, 1936. The sub was 298 feet long; approximately 25 feet wide; displaced 1,316 tons surfaced; and 1,968 tons submerged. She carried five officers and 45 crewmen and was designed to operate at a depth of 250 feet. Constructed with seven watertight compartments plus the conning tower, she was propelled by diesel-electric engines. Her maximum speed on the surface was 18 knots, 8 knots submerged. The cruising range of the submarine was about 11,000 miles at 10 knots (she carried 85,000 gallons of fuel) and she could run submerged for 10 hours at 5 knots and 36 hours at minimum speed. The *Tarpon* was usually out on patrol for 75 days.

A Shark class submarine, the *Tarpon's* hull number was 175 and she carried identification designation P4. The outline plan for the *Tarpon* incorporated many of the basic features that became standard in U.S. Navy submarines of WW II. She was outfitted with one 50 caliber deck gun and carried 18 torpedoes for her four bow, two stern and two bow deck tubes.

From 1936 through October of 1939, the *Tarpon* operated out of San Diego and Pearl Harbor. In late 1939, the submarine was transferred to the Philippines where she joined others in Manila to form a new squadron of 29 boats which comprised the new Asian force replacing the old force of six S-type submarines.

On December 9, 1941, two days after the Japanese surprise attack on Pearl Harbor, the *Tarpon* and 17 other U.S. submarines left Manila for their first war patrol. Cruising an area southeast of Luzon, the *Tarpon* identified several Japanese ships but could not get a shot at any of them. When she ended her first patrol on January 11, 1942 at Darwin, Australia, she had not fired a torpedo. After two weeks in port, the *Tarpon* began her second patrol. This took her to the Moluccas where, after five days at sea, she spotted a convoy of Japanese ships but did not attack because they were so well protected by escort vessels. Finally, on February 1, 1942 a freighter was apparently sunk by the *Tarpon* after she fired several torpedoes, resulting in three hits. After the war, however, there was no confirmation of the sinking in Japanese war records.

The evening of February 11, 1942 proved nearly fatal to the *Tarpon*. She was running on the surface, checking a radar contact, when suddenly she was illuminated by a Japanese navy ship's search light. The *Tarpon*, designed as a large boat for good seahandling qualities, had a slow diving time (more than 60 seconds). Although she managed to submerge, four depth charges severely damaged her bow planes, port annunciator and rudder angle indicator. Lt. Cmdr. Lewis Wallace, the *Tarpon's* commanding officer, ordered the boat to Fremantle, Australia. On the return trip, while west of Flores Island near Adunara Island in the Boling Strait, the *Tarpon* ran aground. Wallace ordered ammunition, fuel, torpedoes and fresh water overboard to lighten the submarine but it was not enough. She was firmly stuck. Signaling a native boat from Adunara Island, an officer was taken ashore and returned with Pastor H. von Den Rulst, a Dutch missionary. The pastor told Wallace that high tide would occur between 4:00 and 6:00 pm that evening and that during each of the past four days, Japanese planes had been over the island. At high tide, however, the submarine easily backed off the sandbar and continued her journey to Fremantle. She arrived March 5 without further incident. The *Tarpon* was repaired and returned to service two weeks later and her third and fourth patrols were routine: She saw no enemy shipping. She was sent to San Francisco in mid-June of 1942 for an engine overhaul and installation of new surface bow torpedo tubes. Work was completed at the end of September and she returned to Pearl Harbor.

In mid-January 1943, after an unsuccessful fifth patrol lasting nearly two months, the *Tarpon* spotted the 11,000 ton passenger-cargo ship, *Fushima Maru*, while patrolling in Japanese waters south of Honshu. The *Tarpon* fired six torpedoes and the *Fushima Maru* broke in half and sank. Four days later while patrolling near Truk, the *Tarpon's* radar detected a large ship. Firing a spread of four torpedoes, the *Tarpon*, forced to dive deep by escort ships, did not see all of them hit. The target, the 17,000 ton *Tatsuta Maru*, headed for Truk loaded with soldiers, sank within minutes.

The *Tarpon* sighted no ships on her seventh patrol but did bombard a radio station at Taroa with her deck gun before she was forced to leave by shelling from shore guns. Returning to Japanese waters for her eighth war patrol she damaged a freighter and sank a patrol boat before returning to Midway in September of 1943.

Her ninth patrol proved to be very interesting. On the night of October 16, patrolling the approaches to Yokohama, she made contact with a large unidentified ship. The *Tarpon* followed the vessel until nearly 2:00 am the next morning and attacked with four torpedoes. Although only one hit, it appeared to stop the vessel dead in the water. However, after a short time, the vessel turned and started toward the *Tarpon*. The submarine submerged and fired three more torpedoes, one of which struck the stern, but the ship still did not sink. The *Tarpon* fired again and struck the ship once more and this time the vessel blew up. After the war it was found that the vessel was the German raider, *Michel*, which had been operating in both the Atlantic and Pacific and was the first German raider to be sunk by an American submarine in the Pacific. During the next couple of weeks, the *Tarpon* fired a total of nine torpedoes at enemy vessels, but did not hit anything and returned to Pearl Harbor.

The *Tarpon's* tenth war patrol sent her to photograph atolls in the Marshall Is-

lands and was uneventful. Her eleventh war patrol, back in the Truk area, nearly ended her war career. On July 14, 1944 the submarine spotted what was identified as an inter-island freighter, but was in fact a disguised anti-submarine ship. She fired three torpedoes at the vessel, missed and was forced to dive quickly. Bombarded by depth charges the *Tarpon* managed to run deep and escape the area. Eleven days later she fired her last torpedoes at a small convoy, but all missed their targets. She approached closely to fire her deck gun, only to have it jam. The convoy returned heavy fire and the *Tarpon* was forced to retreat. Her twelfth and final patrol took her back to the Truk area for six weeks of uneventful duty. She returned to Pearl Harbor in mid-October of 1944 to find that she had been ordered to New London, Connecticut. Leaving Pearl Harbor Christmas Eve 1944, the *Tarpon* arrived at New London in mid-January 1945 and after routine patrol duty along the East Coast was decommissioned on November 15, 1945 at Boston. The *Tarpon* received seven battle stars for World War II service. Her sister ship, the *Shark* (SS-174) did not survive the war, having been sunk by enemy action in 1942. Leaving Boston under tow at the end of March 1947, the *Tarpon* was bound for New Orleans as a dockside naval reserve training ship. She remained there until placed out of service and struck from the Navy list on September 5, 1956. The *Tarpon* was sold for scrap to the Boston Metals Company in Baltimore, Maryland in June of 1957 and in August her hatches were closed one last time and she was taken under tow from New Orleans. On August 26, 1957, in a violent storm off Cape Hatteras, the *Tarpon* foundered and sank in 130 feet of water, a far more fitting final resting place for a venerable old submarine than a welder's torch. Her exact location remained a mystery for over 25 years.

I was fortunate to be one of the first divers to view the remains of the *Tarpon* in October of 1983 after all those years under the sea. She lies approximately 20 miles southeast of Ocracoke Island in 130 feet of water. She is listing about 30 degrees to port and her propeller and deck gun are missing—apparently removed before she was sold. All of her hatches were sealed when I first visited the sub. Since then several hatches have been opened but small amounts of diesel fuel leaking from inside have thus far prevented penetration. Her wooden decking has disappeared and much of the outer shell is missing leaving many of the pumps, valves, pipes and other machinery visible on the outside of the intact pressure hull. Torpedo loading hatches are clearly visible and are inclined at a 45 degree angle to the hull.

The deck of the *Tarpon* lies just below 130 feet deep, her conning tower is at 110-115 feet and the top of her radar antenna on the conning tower is about 105 feet deep. The depth to the sand varies depending on where you are. On the port side amidships, the sand is at 140 feet while near the bow on the starboard or port side it may reach 145 feet deep.

The visibility on the first day I visited the *Tarpon* was around 40-50 feet with no current whatsoever. However, on subsequent visits visibility has been greater than 70 feet. On one occasion a two knot current was running on the surface although there was little current on the wreck. The water temperature during diving season is in the upper 70s to mid-80s. The submarine is covered with brass artifacts and other collectibles, such as shark's teeth, which are scattered in abundance on the deck.

The *Tarpon's* two anchors may be seen on the bow, still in place after all these years. Her conning tower is also intact and the remains of viewing ports around the structure look strangely out of place on a submarine. Her periscope and radar antenna remain in place, rising nearly 20 feet above her deck. There is much machinery visible all over the hull. The remains of the *Tarpon* are covered with calcareous growth. Much of the marine life normally found on North Carolina shipwrecks, such as different types of crustaceans, are not present in any quantity, apparently because the sand tiger sharks keep the hull free of them and lose a few teeth in the process. Because of the distance to the wreck site, the depth and the possibility of strong currents, the wreck is recommended for experienced wreck divers only. The *Tarpon* is visited by dive charter boats from Morehead City, Beaufort and Hatteras.

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